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X TURKEY

PERFORMANCE TESTS, 1962

*Report of Central Turkey Meat
Production Tests and
Statistical Analysis of
Performance Records* *X*

Agricultural Research Service
UNITED STATES DEPARTMENT OF AGRICULTURE

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FOREWORD

This publication includes reports of results from each of seven turkey meat production tests conducted in 1962. The tests conducted in Kansas, Minnesota, Nebraska, North Carolina, North Dakota, and Pennsylvania followed the procedures for central turkey meat production tests as provided in the National Turkey Improvement Plan. The detailed provisions for the tests are contained in USDA Miscellaneous Publication No. 739. Copies of this publication may be obtained from Official State Agencies for the National Turkey Improvement Plan or by writing directly to the Poultry Research Branch, AH Division, Agricultural Research Center, Beltsville, Maryland.

The California test was conducted in accordance with rules prescribed by the supervising agency. Copies of these rules may be obtained from the Poultry Improvement Commission, Route 3, 2718 No. 99 Highway, Modesto, California.

The results of the tests are reported by two methods. The performance data from each entry are shown in reports for each of the tests. The test results are also presented in a combined summary in which the results of all entries of each stock in all tests are combined by acceptable statistical procedures and reported by stocks.

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Information in this report was compiled by the Animal Husbandry Research Division, Agricultural Research Service, from data supplied by the Test Supervisors and analyzed by Biometrical Services, ARS. The publication of this report should not be construed as implying approval or endorsement by the U. S. Department of Agriculture of any of the stocks tested.

TURKEY PERFORMANCE TEST REPORTS

TESTING PROCEDURES

The procedures used by the California test differ in some respects from those used in tests following the provisions of the National Turkey Improvement Plan. The principal differences involve the traits measured and the methods of determining the average weights of the entries. The California test did not report body measurements (breast width, body depth and keel length) but did report a "consumer acceptability" score, based on an evaluation of a random sample of each entry. The entries were grown separately in replicated pens and average weights were determined by bulk weighing by pens rather than by weighing individual birds.

The tests conducted in accordance with the Plan provisions followed the same general procedures but there were variations in test facilities and the details of the methods used. Some of the variations between these tests are as follows:

Sampling: The same methods were used by all tests in obtaining the samples of poults for the entries. A representative of the entrant's Official State Agency selected a sample of eggs from a supply being used to produce poults of the stock entered. A prescribed method of randomization to provide a sample that was typical of the entire supply was followed. The eggs from all entrants in each test were set in the same incubators and, from the salable poults hatched, 100 were selected as the entry. The poults were individually identified by wing bands.

In a few cases the egg sample did not produce enough salable poults and the entry started with less than 100 birds. However, since the performance data is collected on an individual bird basis, these variations gave no advantage or handicap to the affected entries in the final results.

Housing: In all tests, except North Carolina, the poults from all entries were intermingled under the brooders. In North Carolina, the entries were separated and each entry was equally divided between two pens. When the poults were 12 weeks old, the number of poults per entry was reduced by random selection to 80 birds. In the Kansas test, 25 poults of each sex from each entry were placed into separate pens at 8 weeks and the results reported were based on the performance of these birds. In Pennsylvania, the entries and sexes were separated at 6 weeks. In Minnesota, the entries were divided at the time of hatch, and one-half of each entry was grown in tests located at Albert Lea and Rush Point. At the Albert Lea location, the entries were intermingled throughout the test while, at Rush Point, the entries were separated at 8 weeks of age and maintained in separate pens during the remainder of the test. In Nebraska, the Bronze entries were grown out at one location with all entries intermingled, and the White entries, at another location, were maintained in separate pens after the first 8 weeks. The results obtained at each location in Minnesota and Nebraska are reported as separate tests. In North Dakota, the entries were intermingled throughout the test, except that the Bronze entries were separated from the White entries.

In most tests the birds were confined to a house throughout the test, but in Kansas and Nebraska, outside ranges were used after 8 weeks and in North Dakota, small pens adjacent to the house were provided.

Growing Periods: There were variations between tests in the length of the growing periods. The growing periods for hens ranged from 20 to 22 weeks and, for toms, from 24 to 26 weeks. The age of the birds at the time the test was terminated is indicated in each test report as the age for the final live weights.

Mortality: The mortality figures reported were based on the number of birds started and are accumulative for the periods indicated. In the Kansas and North Carolina tests, where the number of birds maintained in the test was reduced at 8 and 12 weeks, respectively, the basis for computing mortality was also adjusted. In the Kansas test, further adjustment was made for entry 12 when twenty 10-week old birds were killed by dogs. The birds were replaced with birds previously separated from the test lot, and the birds killed were not included in the mortality reported for the entry.

Live Weights: In each test the birds were weighed at 12 weeks of age and again just before killing. Additional intermediate weights were taken at some of the tests.

Eviscerated Weights: The eviscerated weights reported are the weights of the fully dressed carcasses and include the weight of neck and giblets. In Kansas, Minnesota and North Carolina, the average weight of the giblets was added to the actual weight of the carcass and neck. The other tests weighed the carcasses after the giblets were inserted, but no provisions were made to insure the return of giblets to the carcass from which they were removed.

In Kansas and Pennsylvania, the carcasses were weighed immediately after dressing while in Minnesota they were placed in chill tanks for several hours before weighing. In the other tests, the carcasses remained in chill tanks overnight before weighing.

Body Measurements: There were also variations in the methods of making body measurements. The Minnesota test measured the live birds; Kansas and Nebraska, the eviscerated birds; and the other tests measured at the New York dressed stage.

Grading: All grading is done by licensed graders and is based on USDA standards. However, the graders are instructed to disregard defects due to faulty handling during the dressing process, and there are undoubtedly between-test-variations in the way this deviation from normal grading is applied.

Defects: The specific defects, pendulous crop, roach back, leg weakness, and breast blisters, are recorded when observed at any time during the growing period or dressing process. However, only those defects that occur on birds that subsequently die or are graded other than A are included in the test report.

Feed Conversion: Feed efficiency was measured by the tests in Kansas, Minnesota (Rush Point), Nebraska (Whites), North Carolina, and Pennsylvania, and is reported as the pounds of feed required to produce a pound of live turkey from one day of age to time of slaughter. Feed consumption per entry was estimated for the initial period prior to the separation of the entries except, in North Carolina, where feed consumption was recorded by entries throughout the test. The estimated feed consumption per entry during the initial period is based on the feed conversion ratio of the intermingled unit and the weight of the entry at the end of the period. During the remainder of the test, the weight of feed consumed was recorded by entries.

The test reports include feed conversion ratios as computed by two methods. The results reported under Method 1 reflect the pounds of feed required to produce a pound of marketable turkey. This method of computation is most commonly used by commercial growers and is more likely to reflect the probable overall economic returns. However, in this method, the ability of the stock to convert feed to meat may be confounded by mortality which occurred during the growing period. Method 2 tends to eliminate the influence of mortality by adding to the weight of the marketable turkeys the weight at time of death of the birds that died before the end of the test.

EVALUATION OF RESULTS

In the evaluation of the results, no direct comparison should be made between entries in different tests. Since differences in the performance of entries in different tests may be due to variations in testing procedures, direct comparisons of results reported in this summary should be made only between entries within a test.

In comparing entries, the possibility of differences due to chance alone should be recognized. Obviously, small differences may be due to chance rather than to a genetic difference in the stocks tested. However, differences should not be ignored solely because they are small, nor should larger differences be accepted as signifying genetic differences because they are large.

It would be difficult to determine precisely what part of the difference between two entries was due to a true genetic difference in the stocks and that which was due to chance alone. Statistical procedures may be applied to test data which will indicate the probability of similar differences occurring in subsequent tests. The NTIP provides that one of these procedures, such as Duncan's Multiple Range Test, be applied to central turkey meat production tests and the results included in the national summary.

STATISTICAL SIGNIFICANCE OF DIFFERENCES

In applying Duncan's Multiple Range Test, the weights and measurements of each entry are compared to those of each other entry. The differences occurring are tested to determine whether they are statistically significant. The results of the statistical analysis are reported in a line chart which was prepared as follows:

(1) For each test and for each trait measured, the entry numbers (shown with the entrant's name in the tables of results) were arranged with the entry having the largest weight or measurement on the left and in descending order to the smallest on the right. (2) A line (underscore) was then drawn under the first entry number and was extended under the number of each entry which did not differ significantly from the first entry. (3) This procedure was followed for each entry in the test.

In the completed chart, those entries whose numbers are underscored by a common line are not significantly different. For example, in the following illustration, entry No. 3 was the largest but not statistically different from entries 5 and 2. Entry 5 was not significantly different from 3, 2, 4, or 9 but was significantly larger than 10, 8, 7, 1 and 6. Entry 6 was the smallest but was not significantly smaller than 7 or 1.

Entry No.	<u>3</u>	<u>5</u>	<u>2</u>	<u>4</u>	<u>9</u>	<u>10</u>	<u>8</u>	<u>7</u>	<u>1</u>	<u>6</u>
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EXPLANATION OF TERMS AND ABBREVIATIONS

Entrant: In the tables of results only the abbreviated names of the entrants and the State in which they are located are given. The complete names and addresses of all entrants appear on pages 7 and 8

Kind of Stock:

BBB	-	Broad Breasted Bronze
BBW	-	Broad Breasted White
SA	-	Silver Auburn
SW	-	Small White
BR	-	Breeder Replacement
SF	-	Supply Flock
SC	-	Strain Cross
PS	-	Pure Strain

Mating Procedure:

Nat.	-	Natural mating
Art.	-	Artificial insemination
Both	-	Natural mating, supplemented with artificial insemination

Feed Conversion: The figures reported represent the pounds of feed used to produce one pound of live turkey.

- Method 1. Includes the weight of marketable turkeys only.
Method 2. Includes the weight of marketable turkeys plus the weight at time of death of birds that died during the growing period and the final weight of other unmarketable birds.

Eviscerated Weight: The weight of the fully dressed birds, including the neck and giblets.

Eviscerated Yield: The eviscerated weight expressed as a percentage of the live weight.

Body Measurements:

Breast Width	-	Measured at the widest point 1 3/4 inches above the keel.
Body Depth	-	Measured at the deepest point.
Keel Length	-	Measured as a straight line between the front and rear ends of the keel.

Grades: Percentage of birds in each grade is computed from the number of birds graded.

Defects: Percentage of birds with defects is computed from the number of birds started.

Consumer Acceptability: The figures reported by the California test for Conformation, Finish and Uniformity are the scores assessed by a panel of three judges. Scores used by the judges are as follows: 5 - Excellent, 4 - Good, 3 - Average, 2 - Below Average and 1 - Poor.

ENTRANTS IN 1962 TURKEY MEAT PRODUCTION TESTS

Name and Address of Entrant	Variety	Strain or Trade Name	Mating Procedure	Tests and Kind of Stock Entered						
				Cal.	Kans.	Minn.	Nebr.	N. C.	N. D.	Penn.
Amerine Turkey Breeding Farms, Inc. Rt. 2, Box 783, Oakdale, Calif.	BBB	Amerine	Art.	SF BR						
Anderson Turkey Farm Belchertown, Massachusetts	BBB	Anderson	Art.					SF		BR
Anderson Turkey Farm Belchertown, Massachusetts	BBW	Anderson Blockbuster	Art.				BR			
Anderson Turkey Hatchery, Inc. Frazee, Minnesota	BBB	Nordman	Both			SF				
Brady Turkey Hatchery Rt. 2, Paola, Kansas	BBW	Nicholas	Both		SF					
Brady Turkey Hatchery Rt. 2, Paola, Kansas	BBB	Nicholas (SC)	Both		SF					
Browning Turkey Farms Winchester, Kentucky	BBB	Browning	Both	SF	SF	SF	SF	SF	SF	SF
Burlington Hatchery, Inc. Burlington, Kansas	BBB	Rose-A-Linda	Both		SF					
California Royal Turkeys, Inc. Box 184, Roseville, California	BBB	California Royal (SC)	Nat.	SF						
California Royal Turkeys, Inc. Box 184, Roseville, California	SA	California Royal	Nat.			BR	BR			
Central Kansas Hatchery, Inc. Moundridge, Kansas	BBW	Kimber KW-66 (SC)	Both		SF					
Central Kansas Hatchery, Inc. Moundridge, Kansas	BBB	Kimber KB-33 (SC)	Both		SF					
Ephrata Turkey Farms, Inc. Ephrata, Pennsylvania	BBW	Ephrata	Both							SF
Gozzi Breeding Farms, Inc. Guilford, Connecticut	BBW	Gozzi 300	Both							BR
Gozzi Breeding Farms, Inc. Guilford, Connecticut	BBW	Gozzi 200	Art.			SF				
Hart's Hatchery, Inc. P. O. Box 749, Medford, Oregon	BBB	Hart- Schneider	Both	BR SF			BR	SF		
Hilltop Turkey Farm & Hatchery Rt. 3, McPherson, Kansas	BBB	Schmidt	Both		SF					
Hilltop Turkey Farm & Hatchery Rt. 3, McPherson, Kansas	BBW	Wilford	Both		SF					
Janes Bar Nothing Ranch, Inc. P. O. Box 918, Austin, Texas	BBB	Janes Male Line	Art.				BR			
Janssen Farms Hatcheries 121 E. Washington, Zeeland, Mich.	BBB	Janssen "Dutch Boy"	Both	SF		SF	SF	SF	SF	SF
Janssen Farms Hatcheries 121 E. Washington, Zeeland, Mich.	BBW	Janssen "Dutch Boy"	Both	SF	SF	SF	SF	SF	SF	SF
Johnson Farms, Inc. Rose Hill, North Carolina	BBB	Johnson	Nat.					SF		
Kimber Turkey Breeding Farms 5695 E. Shields Ave. Fresno 27, California	BBB	Kimber KB-33 (SC)	Both				SF	SF	SF	
Kimber Turkey Breeding Farms 5695 E. Shields Ave. Fresno 27, California	BBW	Kimber KW-66 (SC)	Both				SF	SF	SF	
Land O'Lakes Creameries, Inc. 2215 Kennedy St., N.E. Minneapolis, Minnesota	BBB	Kimber KB-33 (SC)	Both			SF				
Land O'Lakes Creameries, Inc. 2215 Kennedy St., N.E. Minneapolis, Minnesota	BBW	Kimber KW-66 (SC)	Both			SF				
Manhattan Hatchery Rt. 5, Manhattan, Kansas	BBB	Kimber KB-33 (SC)	Both		SF					

ENTRANTS IN 1962 TURKEY MEAT PRODUCTION TESTS - Continued

Name and Address of Entrant	Variety	Strain or Trade Name	Mating Pro- cedure	Tests and Kind of Stock Entered						
				Cal.	Kans.	Minn.	Nebr.	N. C.	N. D.	Penn.
Meadowbrook Turkey Farms R. D. 2, Box 810, Roseville, Calif.	BBB	Meadowbrook MBX-100 (SC)	Both	SF		SF				SF
Meadowbrook Turkey Farms R. D. 2, Box 810, Roseville, Calif.	BBW	Meadowbrook	Both	SF						
Nicholas Turkey Breeding Farms, Inc. 865 W. Napa St., Sonoma, Calif.	BBB	Nicholas (SC)	Both	SF		SF				SF
Nicholas Turkey Breeding Farms, Inc. 865 W. Napa St., Sonoma, Calif.	BBB	Nicholas Male Line	Both	BR			BR			
Nicholas Turkey Breeding Farms, Inc. 865 W. Napa St., Sonoma, Calif.	BBW	Nicholas	Both	BR		BR	BR		BR	BR
Nokota Hatchery Devils Lake, North Dakota	BBW	Nicholas	Art.						SF	
Palmateer Turkey Farm & Hatchery R. D. 1, Elverson, Pennsylvania	BBW	Rose-A-Linda	Both							SF
Palmateer Turkey Farm & Hatchery R. D. 1, Elverson, Pennsylvania	BBB	Experimental	Both							SF
Poultry Department, North Carolina State College, Raleigh, N. C.	BBB	Experimental Control	Nat.					SF		
Rose-A-Linda Turkey Farms 7842 Elmont Ave., Elverta, Calif.	BBB	Rose-A-Linda	Art.	BR		SF				
Schultz, Fred W. & Son Box 246, Croton Falls, New York	BBW	Schultz (SC)	Art.							SF
Segars Turkey Breeding Ranch Box 1008, Turlock, California	BBW	Segars (SC)	Art.	SF			SF			SF
Shearer, Robert K. R. D. 1, Reinholds, Pennsylvania	BBB	Shearer	Art.							BR
Stants Turkey Hatchery Abilene, Kansas	BBW	Segars	Both		SF					
Waite's Turkey Hatchery, Inc. Eldon, Missouri	BBB	Waite's "King Size"	Nat.		SF		SF			
Washore Turkey Association 920 S. E. Stark, Portland 14, Ore.	BBB	Washore 400 Pure Strain	Both				BR			
Welkona Turkeys, Inc. Kalona, Iowa	BBB	Welkona- Wheeler	Nat.	SF		SF	SF		SF	SF
Welkona Turkeys, Inc. Rt. 2, Box 34, McMinnville, Ore.	BBB	Wheeler	Nat.				BR			
Welp's Turkey Breeding Farm Bancroft, Iowa	BBB	Welp B 1020	Both			SF				
Welp's Turkey Breeding Farm Bancroft, Iowa	BBW	Iowhite 1030	Both			SF				
Harvey Wenzel Box 56, Garden Prairie, Illinois	BBB	Wenzel	Both				SF			
Wila Turkey Ranch Wila, Pennsylvania	BBB	Marcum	Art.							SF
Williams Turkey Breeding Farm Box 2, Oakdale, California	BBB	Williams	Both	SF		SF	SF	SF	SF	SF
Wrolstad Turkey Farm Rt. 3, Box 293, Molalla, Oregon	SW	Wrolstad	Both	SF						

CALIFORNIA RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

Statistical Significance of Differences Between Entries

Final Live Weight

Entry No.	Toms	17	1	16	2	3	10	9	8	15	14	4	12	6	13	11	5	7	18
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Entry No.	Hens	1	17	2	16	11	8	14	13	15	3	9	12	10	6	5	4	7	18
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Eviscerated Weight

Entry No.	Toms	17	1	16	2	3	10	9	8	15	14	4	12	6	11	13	5	7	18
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Entry No.	Hens	1	17	2	11	16	14	8	13	9	15	10	3	12	6	5	4	7	18
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Eviscerated Yield

Entry No.	Toms	11	8	14	17	13	1	2	3	9	18	4	6	10	15	5	7	16	12
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Entry No.	Hens	11	14	13	17	8	6	9	10	1	2	16	7	4	15	5	18	3	12
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Finish

Entry No.	Toms	17	18	1	2	16	15	7	14	3	8	12	10	9	4	13	6	11	5
-----------	------	----	----	---	---	----	----	---	----	---	---	----	----	---	---	----	---	----	---

Entry No.	Hens	1	2	14	17	8	9	18	3	15	12	16	4	10	7	13	5	11	6
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Conformation

Entry No.	Toms	17	11	14	18	1	2	7	8	10	13	15	12	6	3	5	9	16	4
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Entry No.	Hens	14	1	11	2	8	13	17	18	15	5	9	7	10	16	3	12	6	4
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Uniformity

Uniformity was reported by entries only, not by replicates. Therefore this method of analysis could not be applied.

CALIFORNIA RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

ENTRANT	STRAIN OR TRADE NAME	COLOR	MORTALITY (%)			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION	
			2 WEEKS	8 WEEKS	END OF TEST *		WEEKS	12 WEEKS	WEEKS	21 WEEKS	WEEKS	24 WEEKS	METHOD 1	METHOD 2
1. Amerine California	Amerine	B			4.7	Toms Hens		10.0 7.8		16.1		27.5		3.39 3.45
2. Amerine California	Amerine	B			6.0	Toms Hens		9.6 8.0		15.6		27.0		3.44 3.54
3. Browning Kentucky	Browning	B			6.6	Toms Hens		9.2 7.7		14.6		26.0		3.76 3.68
4. Calif. Royal California	California Royal	B			5.2	Toms Hens		8.6 6.8		13.3		24.4		3.65 3.65
5. Hart Oregon	Hart-Schneider	B			3.4	Toms Hens		8.3 6.8		13.4		23.1		3.55 3.61
6. Hart Oregon	Hart-Schneider	B			2.2	Toms Hens		8.4 6.9		13.8		23.9		3.52 3.61
7. Janssen Michigan	Janssen "Dutch Boy"	W			3.5	Toms Hens		8.1 6.7		13.3		23.0		3.57 3.62
8. Janssen Michigan	Janssen "Dutch Boy"	B			3.0	Toms Hens		8.8 7.5		14.9		25.0		3.36 3.44
9. Meadowbrook California	Meadowbrook Large White	W			7.4	Toms Hens		9.7 7.8		14.5		25.5		3.72 3.68
10. Meadowbrook California	MBX-100	B			4.4	Toms Hens		9.0 7.4		14.4		25.8		3.48 3.59
11. Nicholas California	Nicholas Male Line	B			6.2	Toms Hens		8.4 7.6		14.9		23.4		3.45 3.26
12. Nicholas California	Nicholas White	W			11.0	Toms Hens		8.8 7.7		14.5		24.2		3.71 3.59
13. Nicholas California	Nicholas (SC)	B			7.7	Toms Hens		8.4 7.3		14.6		23.5		3.56 3.47
14. Rose-A-Linda California	Rose-A-Linda	B			1.4	Toms Hens		8.7 7.4		14.8		24.6		3.40 3.34
15. Segars California	Segars	W			10.5	Toms Hens		9.0 7.6		14.6		25.1		3.52 3.56
16. Welkona Iowa	Welkona- Wheeler	B			6.2	Toms Hens		9.6 7.9		15.2		27.4		3.49 3.78
17. Williams California	Williams	B			3.9	Toms Hens		9.8 8.0		15.8		27.9		3.46 3.61
18. Wrolstad Oregon	Wrolstad Whites	W			5.0	Toms Hens		7.0 5.6		10.4		19.3		3.66 3.85
Average All Entries		B & W			5.5	Toms Hens		8.8 7.4		14.4		24.8		3.54 3.57
Avg. Bronze Entries		B			4.7	Toms Hens		9.0 7.5		14.7		25.4		3.50 3.54
Avg. White Entries		W			7.5	Toms Hens		8.5 7.1		13.5		23.4		3.64 3.66

* Both sexes

CALIFORNIA RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

Eviscerated		Consumer Acceptability			OVER-ALL QUALITY % U. S. GRADE			% U. S. GRADE A FOR:			PERCENT WITH:				Entrant
Weight (lbs)	Yield (%)	Con- form- ation	Fin- ish	Uni- form- ity	A	B	C	Fleshing	Finish	Freedom of Pin- feathers	Pendu- lous Crop	Roach Back	Leg Weak- ness	Breast Blisters	
22.5 13.0	81.8 80.9	3.4 3.4	3.4 3.4	3.3 3.3	67.0 56.0	11.0 20.0	22.0 22.0								1. Amerine
22.1 12.6	81.7 80.8	3.3 3.3	3.3 3.4	2.7 3.3	63.0 54.0	18.0 23.0	17.0 23.0								2. Amerine
21.2 11.6	81.6 80.0	2.9 2.9	3.2 3.2	2.7 3.0	58.0 69.0	24.0 15.0	17.0 14.0								3. Browning
19.9 10.7	81.5 80.3	2.7 2.7	3.0 3.0	2.3 2.3	59.0 56.0	17.0 27.0	21.0 16.0								4. Calif. Royal
18.7 10.7	81.1 80.2	2.8 3.0	2.7 2.8	2.3 3.0	45.0 61.0	21.0 15.0	33.0 23.0								5. Hart
19.5 11.2	81.4 81.2	3.0 2.8	2.8 2.6	2.7 2.7	61.0 76.0	21.0 10.0	18.0 14.0								6. Hart
18.7 10.7	81.1 80.5	3.2 3.0	3.2 2.9	3.0 3.0	67.0 63.0	21.0 13.0	10.0 23.0								7. Janssen
20.7 12.1	82.7 81.4	3.2 3.2	3.2 3.2	3.7 3.0	57.0 56.0	28.0 18.0	15.0 25.0								8. Janssen
20.8 11.8	81.6 81.2	2.8 3.0	3.0 3.2	2.3 3.7	65.0 81.0	19.0 10.0	15.0 9.0								9. Meadowbrook
20.9 11.7	81.2 81.0	3.2 3.0	3.1 3.0	3.0 2.7	74.0 78.0	17.0 15.0	9.0 7.0								10. Meadowbrook
19.4 12.4	82.7 83.1	3.6 3.4	2.8 2.7	3.0 3.7	45.0 44.0	27.0 44.0	27.0 12.0								11. Nicholas
19.5 11.5	80.6 79.4	3.0 2.9	3.2 3.1	3.0 3.0	66.0 72.0	8.0 20.0	22.0 8.0								12. Nicholas
19.2 12.0	81.9 81.9	3.2 3.2	2.9 2.9	2.7 2.7	52.0 58.0	21.0 25.0	25.0 17.0								13. Nicholas
20.2 12.2	82.3 82.1	3.5 3.7	3.2 3.3	3.0 3.7	58.0 59.0	23.0 27.0	18.0 14.0								14. Rose-A-Linda
20.4 11.7	81.1 80.3	3.0 3.1	3.2 3.2	3.7 3.3	75.0 61.0	13.0 24.0	10.0 14.0								15. Segars
22.2 12.3	80.9 80.8	2.8 3.0	3.3 3.1	3.0 3.3	72.0 65.0	14.0 16.0	14.0 16.0								16. Welkona
22.9 12.9	82.1 81.4	3.7 3.2	3.6 3.3	3.0 3.7	61.0 64.0	16.0 21.0	23.0 14.0								17. Williams
15.7 8.3	81.5 80.0	3.4 3.2	3.5 3.2	3.7 3.3	90.0 86.0	6.0 10.0	4.0 4.0								18. Wrolstad
20.3 11.6	81.6 80.9	3.2 3.1	3.1 3.1	3.0 3.2	63.0 64.0	18.0 20.0	18.0 15.0								Average All Entries
20.7 12.0	81.8 81.2	3.2 3.1	3.1 3.1	2.9 3.1	59.0 61.0	20.0 21.0	20.0 17.0								Avg. Bronze Entries
19.0 10.8	81.2 80.3	3.1 3.0	3.2 3.1	3.1 3.3	73.0 73.0	13.0 15.0	12.0 12.0								Avg. White Entries

KANSAS CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

ENTRANT	STRAIN OR TRADE NAME	COLOR	MORTALITY (%)*			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION*	
			2 WEEKS	8 WEEKS	END OF TEST		WEEKS	8 WEEKS	12 WEEKS	20 WEEKS	22 WEEKS	26 WEEKS	METHOD 1	METHOD 2
1. Brady Kansas	Nicholas (SC)	B	10.2	11.7	11.7	Toms		6.5	10.6	20.2	24.9	28.1		3.14
2. Brady Kansas	Nicholas	W	14.8	16.5	24.5	Hens		5.4	8.3	14.5	15.5			3.15
3. Browning Kentucky	Browning	B	11.3	13.1	15.1	Toms		6.7	10.7	20.5	24.8	28.0		3.25
4. Burlington Kansas	Rose-A-Linda	B	4.0	4.0	6.0	Hens		5.5	8.5	14.5	15.3			3.00
5. Central Kans. Kansas	Kimber KB-33 (SC)	B	4.2	4.9	14.9	Toms		6.9	11.0	20.5	26.1	28.9		3.03
6. Central Kans. Kansas	Kimber KW-66 (SC)	W	12.5	14.8	14.8	Hens		6.3	10.3	21.7	26.5	29.4		3.25
7. Hill Top Kansas	Schmidt	B	3.5	4.7	8.7	Toms		5.4	8.3	15.6	16.9			2.97
8. Hill Top Kansas	Wilford	W	6.8	6.8	6.8	Hens		6.2	10.3	20.5	26.2	29.4		2.97
9. Janssen Michigan	Janssen "Dutch Boy"	W	4.6	7.3	7.3	Toms		6.0	9.8	20.0	25.3	28.2		3.08
10. Manhattan Kansas	Kimber KB-33 (SC)	B	4.7	4.7	6.7	Hens		4.8	7.7	13.8	14.9			3.17
11. Stants Kansas	Segars (SC)	W	5.3	5.3	9.3	Toms		5.7	9.4	19.6	24.2	27.1		3.15
12. Waite Missouri	Waite's "King Size"	B	9.9	11.5	21.5	Hens		4.8	7.7	13.7	14.7			3.22
Average All Entries		B & W	7.6	8.8	12.3	Toms		6.2	9.8	19.2	24.7	27.5		3.12
Avg. Bronze Entries		B	6.8	7.8	12.1	Hens		4.9	7.9	13.5	14.5			3.11
Avg. White Entries		W	8.8	10.1	12.5	Toms		6.3	10.6	21.6	26.7	29.4		3.12
						Hens		5.1	8.0	15.0	16.1			
								6.3	8.0	20.7	25.7	28.3		
								5.2	8.0	14.2	15.2			
								6.4	10.3	20.8	25.8	28.3		
								5.5	8.3	14.0	14.7			
								6.3	10.2	20.4	25.4	28.2		
								5.2	8.1	14.3	15.3			
								6.3	10.4	20.8	25.9	28.8		
								5.2	8.1	14.5	15.6			
								6.3	10.2	20.0	24.7	27.5		
								5.2	8.1	14.0	14.9			

* Both sexes

Statistical Significance of Differences Between Entries

Final Live Weight

Toms														
Entry No.	10	5	4	3	11	12	7	1	2	9	8	6		
Hens	4	10	3	1	2	5	11	6	7	12	8	9		
Entry No.														

Eviscerated Weight

Toms														
Entry No.	4	10	5	1	7	3	12	11	2	9	8	6		
Hens	4	1	10	5	2	3	11	7	6	8	12	9		
Entry No.														

Eviscerated Yield

Toms														
Entry No.	1	7	4	12	10	11	8	5	3	9	6	2		
Hens	1	7	5	4	9	8	11	2	6	12	3	10		
Entry No.														

KANSAS CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

Eviscerated		Breast Width	Body Depth	Keel Length	Over-All Quality % U. S. Grade			% U. S. Grade A For:			Percent With:				Entrant
Weight	Yield				A	B	C	Fleshing	Finish	Freedom of Pin-Feathers	Pendulous Crop	Roach Back	Leg Weakness	Breast Blisters	
(lbs)	(%)	Inches	Inches	Inches											
23.2	82.7	5.6	8.8	7.7	74.1	22.2	3.7	100.0	88.9	100.0	0.0	14.8	0.0	3.7	1.
12.8	83.0	5.1	6.9	6.1	95.7	4.3	0.0	100.0	95.7	100.0	0.0	0.0	0.0	0.0	Brady
22.3	79.9	5.5	8.9	7.7	86.4	4.5	9.1	100.0	95.5	100.0	0.0	4.5	0.0	9.1	2.
12.4	80.8	5.0	7.0	6.2	100.0	0.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	Brady
23.2	80.3	5.3	9.1	8.1	87.5	4.2	8.3	100.0	95.8	100.0	0.0	4.2	0.0	8.3	3.
12.3	79.8	5.0	7.0	6.5	100.0	0.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	Browning
24.1	81.9	6.0	8.3	7.4	88.9	3.7	7.4	100.0	100.0	100.0	0.0	3.7	0.0	7.4	4.
13.9	81.9	5.8	6.7	6.1	100.0	0.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	Burlington
23.6	80.4	5.6	8.7	7.8	87.0	8.7	4.3	100.0	100.0	100.0	0.0	8.7	0.0	4.3	5.
12.6	82.3	5.1	6.8	6.2	86.4	13.6	0.0	100.0	100.0	100.0	0.0	13.6	0.0	0.0	Central Kansas
21.2	80.0	5.3	8.7	7.5	81.5	7.4	11.1	96.3	92.6	100.0	0.0	3.7	0.0	11.1	6.
12.0	80.7	4.9	6.9	6.2	95.5	0.0	4.5	100.0	100.0	100.0	0.0	4.5	0.0	0.0	Central Kansas
23.2	82.5	5.6	8.6	7.4	100.0	0.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	7.
12.3	82.4	5.1	6.7	6.0	100.0	0.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	Hill Top
22.0	81.0	5.6	8.4	7.4	92.3	7.7	0.0	100.0	96.2	100.0	0.0	3.8	0.0	0.0	8.
11.9	81.5	5.3	6.7	6.0	100.0	0.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	Hill Top
22.0	80.2	5.6	8.6	7.2	88.9	0.0	11.1	100.0	100.0	100.0	0.0	0.0	0.0	11.1	9.
11.8	81.7	5.0	6.6	5.8	100.0	0.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	Janssen
23.9	81.4	5.6	9.1	7.9	82.7	4.3	13.0	100.0	100.0	100.0	0.0	8.7	0.0	8.7	10.
12.8	79.5	5.1	7.0	6.3	88.5	7.7	0.0	100.0	96.2	100.0	0.0	3.8	0.0	0.0	Manhattan
23.0	81.2	5.6	8.9	7.8	92.3	0.0	7.7	100.0	100.0	100.0	0.0	0.0	0.0	7.7	11.
12.3	81.3	5.0	6.9	6.1	100.0	0.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	Stants
23.0	81.6	5.4	9.2	8.1	86.7	0.0	13.3	100.0	100.0	100.0	0.0	0.0	0.0	13.3	12.
11.9	80.5	4.6	7.2	6.5	86.7	13.3	0.0	100.0	93.3	100.0	0.0	6.7	0.0	0.0	Waite
22.9	81.1	5.6	8.8	7.7	87.4	5.2	7.4	99.7	97.4	100.0	0.0	4.3	0.0	7.0	Average All
12.4	81.3	5.1	6.9	6.2	96.1	3.3	0.4	100.0	98.8	100.0	0.0	2.4	0.0	0.0	Entries
23.4	81.5	5.6	8.8	7.8	86.7	6.2	7.1	100.0	97.8	100.0	0.0	5.7	0.0	6.5	Avg. Bronze
12.6	81.3	5.1	6.9	6.2	93.9	5.6	0.0	100.0	97.9	100.0	0.0	3.4	0.0	0.0	Entries
22.1	80.5	5.5	8.7	7.5	88.3	3.9	7.8	99.2	96.9	100.0	0.0	2.4	0.0	7.8	Avg. White
12.1	81.2	5.0	6.9	6.1	99.1	0.0	0.9	100.0	100.0	100.0	0.0	0.9	0.0	0.0	Entries

Statistical Significance of Differences Between Entries

Breast Width

Toms															
Entry No.	4	7	1	10	5	9	11	8	2	12	3	6			

Hens															
Entry No.	4	8	10	1	7	5	11	2	9	3	6	12			

Body Depth

Toms															
Entry No.	12	3	10	2	11	1	5	6	9	7	8	4			

Hens															
Entry No.	12	3	10	2	11	1	6	5	7	4	8	9			

Keel Length

Toms															
Entry No.	12	3	10	5	11	2	1	6	7	4	8	9			

Hens															
Entry No.	12	3	10	6	2	5	4	11	1	7	8	9			

MINNESOTA CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST (Rush Point)

ENTRANT	STRAIN OR TRADE NAME	COLOR	MORTALITY (%)*			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION *	
			2 WEEKS	8 WEEKS	END OF TEST		8* WEEKS	12* WEEKS	20 WEEKS		21 WEEKS	24 WEEKS	METHOD 1	METHOD 2
1. Anderson Minnesota	Nordman	B	1.8	1.8	1.8	Toms Hens	5.2	8.4	16.4 12.6		13.5	23.1	3.77	3.77
2. Browning Kentucky	Browning	B	1.8	1.8	3.8	Toms Hens	5.4	8.9	17.9 13.4		14.6	25.1	3.79	3.77
3. Calif. Royal California	California Royal	B	1.8	1.8	3.8	Toms Hens	4.8	7.8	15.0 11.3		12.0	20.6	4.05	3.97
4. Gozzi Connecticut	Gozzi 200	W	0.0	0.0	0.0	Toms Hens	4.9	7.9	15.9 11.7		12.6	22.2	3.75	3.75
5. Janssen Michigan	Janssen "Dutch Boy"	B	1.8	1.8	3.8	Toms Hens	5.5	8.8	18.1 12.9		13.9	25.8	3.62	3.62
6. Janssen Michigan	Janssen "Dutch Boy"	W	3.6	3.6	3.6	Toms Hens	4.9	7.8	16.5 11.8		12.5	23.0	3.67	3.67
7. Land O'Lakes Minnesota	Kimber KB-33	B	1.8	1.8	1.8	Toms Hens	5.4	8.9	18.0 12.9		13.8	25.3	3.69	3.69
8. Land O'Lakes Minnesota	Kimber KW-66	W	7.1	7.1	7.1	Toms Hens	5.1	8.2	17.0 11.8		12.7	22.7	3.90	3.90
9. Meadowbrook California	Meadowbrook MBX-100	B	0.0	0.0	2.0	Toms Hens	5.6	8.9	17.1 12.0		13.2	23.7	3.98	3.95
10. Nicholas California	Nicholas	B	0.0	0.0	0.0	Toms Hens	5.6	8.9	17.7 12.6		13.5	24.3	3.78	3.78
11. Nicholas California	Nicholas	W	3.6	3.6	7.6	Toms Hens	5.7	9.2	17.9 13.4		14.3	24.6	3.95	3.81
12. Rose-A-Linda California	Rose-A-Linda	B	3.6	3.6	5.6	Toms Hens	5.3	8.6	17.1 12.8		13.9	24.1	3.83	3.78
13. Welkona Iowa	Welkona Wheeler	B	0.0	1.8	1.8	Toms Hens	5.7	9.2	18.9 13.9		14.7	26.8	3.67	3.67
14. Welp Iowa	Welp B 1020	B	1.8	1.8	1.8	Toms Hens	5.2	8.3	16.0 12.0		13.0	22.1	3.86	3.86
15. Welp Iowa	Iowhite 1030	W	1.8	1.8	5.8	Toms Hens	5.1	8.1	16.8 12.0		12.7	23.3	3.91	3.89
16. Williams California	Williams	B	0.0	0.0	2.1	Toms Hens	5.8	9.2	18.0 14.0		14.7	25.0	3.72	3.66
Average All Entries		B & W	1.9	2.0	3.3	Toms Hens	5.3	8.6	17.1 12.6		13.5	23.9	3.81	3.76
Avg. Bronze Entries		B	1.3	1.4	2.5	Toms Hens	5.5	8.8	17.5 12.9		13.9	24.5	3.77	3.76
Avg. White Entries		W	3.0	3.0	4.7	Toms Hens	5.1	8.2	16.5 12.0		12.8	22.7	3.87	3.83

* Both sexes

MINNESOTA CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST (Rush Point)

Eviscerated		Breast Width	Body Depth	Keel Length	OVER-ALL QUALITY % U. S. GRADE			% U. S. GRADE A FOR:			PERCENT WITH:				Entrant
Weight	Yield				A	B	C	Fleshing	Finish	Freedom of Pin-Feathers	Pendulous Crop	Roach Back	Leg Weakness	Breast Blisters	
(lbs)	(%)	Inches	Inches	Inches											
19.0	82.0	3.5	9.0	7.1	92.3	7.7	0.0				0.0	0.0	0.0	0.0	1.
10.3	76.3	3.0	7.4	5.9	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Anderson
20.4	81.3	3.5	9.4	7.5	90.5	9.5	0.0				0.0	0.0	0.0	9.5	2.
11.1	76.0	2.9	7.7	6.1	95.7	0.0	4.3				0.0	0.0	0.0	4.3	Browning
16.7	81.1	3.2	9.3	6.8	95.8	4.2	0.0				0.0	0.0	0.0	0.0	3.
9.2	76.5	2.8	7.3	5.5	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Calif. Royal
17.8	80.2	3.6	9.0	6.9	100.0	0.0	0.0				0.0	0.0	0.0	0.0	4.
9.7	77.3	3.3	7.3	5.6	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Gozzi
21.3	82.3	3.7	9.2	7.2	96.0	0.0	4.0				4.0	0.0	0.0	0.0	5.
10.8	77.5	3.3	7.3	5.8	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Janssen
18.4	80.0	3.7	9.1	6.9	92.0	0.0	8.0				4.0	4.0	0.0	0.0	6.
9.7	77.3	3.1	7.1	5.5	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Janssen
20.6	81.5	3.7	9.5	7.1	96.0	0.0	4.0				4.0	0.0	0.0	0.0	7.
10.5	76.4	3.1	7.3	5.8	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Land O'Lakes
18.2	80.2	3.6	9.3	6.9	100.0	0.0	0.0				0.0	0.0	0.0	0.0	8.
9.7	76.7	2.9	7.3	5.7	95.5	0.0	4.5				0.0	4.5	0.0	0.0	Land O'Lakes
19.4	81.6	3.6	9.3	7.2	96.2	3.8	0.0				0.0	0.0	0.0	0.0	9.
10.1	76.3	2.9	7.3	5.7	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Meadowbrook
19.8	81.7	3.7	9.5	7.1	100.0	0.0	0.0				0.0	0.0	0.0	0.0	10.
10.6	78.7	3.1	7.4	5.8	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Nicholas
19.9	80.8	3.4	9.6	7.3	100.0	0.0	0.0				0.0	0.0	0.0	0.0	11.
11.1	77.7	3.2	7.5	5.9	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Nicholas
19.9	82.6	3.9	8.7	7.0	100.0	0.0	0.0				0.0	0.0	0.0	0.0	12.
10.6	76.4	3.3	7.1	5.7	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Rose-A-Linda
21.6	80.8	3.4	9.8	7.5	100.0	0.0	0.0				0.0	0.0	0.0	0.0	13.
11.2	76.3	3.0	7.7	6.2	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Welkona
18.0	81.3	3.6	9.0	7.1	92.0	8.0	0.0				0.0	0.0	0.0	0.0	14.
9.7	74.7	2.9	7.3	5.9	95.8	0.0	4.2				0.0	0.0	0.0	4.2	Welp
18.5	79.4	3.4	9.5	7.0	87.5	8.3	4.2				0.0	4.2	0.0	4.2	15.
9.6	75.6	2.9	7.4	5.8	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Welp
20.1	80.2	3.6	9.4	7.2	91.0	4.5	4.5				0.0	0.0	0.0	4.5	16.
11.4	77.3	3.3	7.4	6.0	100.0	0.0	0.0				0.0	0.0	0.0	0.0	Williams
19.4	81.1	3.6	9.3	7.1	95.6	2.9	1.5				0.8	0.5	0.0	1.1	Average All
10.3	76.7	3.1	7.4	5.8	99.2	0.0	0.8				0.0	0.3	0.0	0.5	Entries
20.0	81.5	3.6	9.3	7.2	95.4	3.4	1.3				0.8	0.0	0.0	1.4	Avg. Bronze
10.6	76.6	3.1	7.4	5.9	99.2	0.0	0.9				0.0	0.0	0.0	0.9	Entries
18.3	80.3	3.5	9.3	7.0	95.9	2.1	2.0				0.7	1.4	0.0	0.7	Avg. White
9.8	76.9	3.0	7.3	5.7	99.3	0.0	0.8				0.0	0.8	0.0	0.0	Entries

MINNESOTA CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST (Rush Point)

Statistical Significance of Differences Between Entries

Final Live Weight

Entry No.	13	5	7	2	16	11	10	12	9	15	1	6	8	4	14	3
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Entry No.	16	13	2	11	5	12	7	1	10	9	14	15	8	4	6	3
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Eviscerated Weight

Entry No.	13	5	7	2	16	11	12	10	9	1	15	6	8	14	4	3
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Entry No.	16	13	11	2	5	10	12	7	1	9	4	8	6	14	15	3
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Eviscerated Yield

Entry No.	12	5	1	10	9	7	14	2	3	11	13	16	8	4	6	15
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Entry No.	10	11	5	6	16	4	8	3	7	12	13	1	9	2	15	14
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Breast Width

Entry No.	12	5	10	6	7	9	16	4	8	14	1	11	2	13	15	3
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Entry No.	4	16	12	5	11	6	10	7	13	1	2	9	8	14	15	3
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Body Depth

Entry No.	13	11	10	15	7	2	16	3	9	8	5	6	14	4	1	12
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Entry No.	2	13	11	15	1	10	16	5	9	8	3	4	7	14	6	12
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Keel Length

Entry No.	13	2	11	9	16	5	7	1	10	14	12	15	4	6	8	3
-----------	----	---	----	---	----	---	---	---	----	----	----	----	---	---	---	---

Entry No.	13	2	16	1	14	11	5	10	7	15	9	8	12	4	3	6
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MINNESOTA CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST (Albert Lea)

Statistical Significance of Differences Between Entries

Final Live Weight

Entry No.	Toms	16	13	2	5	12	9	7	1	14	11	10	8	6	15	4	3
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Entry No.	Hens	16	13	7	10	5	14	2	11	12	9	1	4	8	15	3	6
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Eviscerated Weight

Entry No.	Toms	16	13	12	5	2	9	7	1	10	14	11	8	6	15	4	3
-----------	------	----	----	----	---	---	---	---	---	----	----	----	---	---	----	---	---

Entry No.	Hens	16	7	13	10	5	12	14	2	11	9	4	1	8	15	6	3
-----------	------	----	---	----	----	---	----	----	---	----	---	---	---	---	----	---	---

Eviscerated Yield

Entry No.	Toms	12	9	10	1	7	8	5	13	16	2	3	14	6	15	11	4
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Entry No.	Hens	12	16	5	10	6	9	4	7	11	13	8	1	14	2	3	15
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Breast Width

Entry No.	Toms	12	6	10	5	16	1	4	7	8	9	11	2	14	3	13	15
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Entry No.	Hens	4	12	16	6	11	5	8	7	15	10	1	2	3	14	9	13
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Body Depth

Entry No.	Toms	13	9	11	2	3	14	15	16	10	7	1	5	6	8	4	12
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Entry No.	Hens	13	11	16	9	14	10	2	3	15	7	4	5	1	6	8	12
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Keel Length

Entry No.	Toms	13	16	2	9	5	7	11	14	1	3	15	8	10	12	4	6
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Entry No.	Hens	13	14	16	2	7	9	15	1	5	8	11	12	4	3	10	6
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MINNESOTA CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST (Albert Lea)

ENTRANT	STRAIN OR TRADE NAME	COLOR	MORTALITY (%)*			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION	
			2 WEEKS	8 WEEKS	END OF TEST		8* WEEKS	12* WEEKS	20 WEEKS	WEEKS	21 WEEKS	24 WEEKS	METHOD 1	METHOD 2
1. Anderson Minnesota	Nordman	B	2.0	4.0	4.0	Toms Hens	5.5	9.1	18.9 13.2			24.9 13.9		
2. Browning Kentucky	Browning	B	2.0	2.0	4.0	Toms Hens	5.8	9.5	19.5 13.8			26.0 14.7		
3. Calif. Royal California	California Royal	W	8.0	8.0	8.0	Toms Hens	5.0	8.5	17.4 12.7			22.4 13.4		
4. Gozzi Connecticut	Gozzi 200	W	2.0	6.0	8.0	Toms Hens	5.0	8.8	17.5 12.9			23.1 13.8		
5. Janssen Michigan	Janssen "Dutch Boy"	B	4.0	4.0	6.0	Toms Hens	5.6	9.5	19.6 13.5			26.0 14.7		
6. Janssen Michigan	Janssen "Dutch Boy"	W	2.0	2.0	2.0	Toms Hens	5.2	8.8	18.2 12.8			23.6 13.3		
7. Land O'Lakes Minnesota	Kimber KB-33	B	10.0	10.0	10.0	Toms Hens	5.6	9.5	19.3 14.2			25.1 14.9		
8. Land O'Lakes Minnesota	Kimber KW-66	W	12.0	12.0	14.0	Toms Hens	5.4	9.0	18.4 13.0			24.3 13.7		
9. Meadowbrook California	Meadowbrook MBX-100	B	8.0	8.0	8.0	Toms Hens	5.7	9.4	19.3 13.7			25.2 14.4		
10. Nicholas California	Nicholas	B	6.0	8.0	14.0	Toms Hens	5.4	9.3	19.4 13.8			24.6 14.8		
11. Nicholas California	Nicholas	W	4.0	4.0	4.0	Toms Hens	5.8	9.7	19.3 13.8			24.8 14.5		
12. Rose-A-Linda California	Rose-A-Linda	B	4.0	6.0	6.0	Toms Hens	5.6	9.3	19.7 13.9			25.8 14.5		
13. Welkona Iowa	Welkona-Wheeler	B	4.0	4.0	6.0	Toms Hens	6.0	10.0	21.0 14.3			28.0 14.9		
14. Welp Iowa	Welp B 1020	B	0.0	2.0	6.0	Toms Hens	5.5	9.0	18.9 13.9			24.9 14.7		
15. Welp Iowa	Iowwhite 1030	W	2.0	4.0	4.0	Toms Hens	5.3	8.9	17.9 13.4			23.5 13.7		
16. Williams California	Williams	B	2.0	2.0	4.0	Toms Hens	6.1	10.2	20.8 14.8			28.3 15.9		
Average All Entries		B & W	4.5	5.4	6.8	Toms Hens	5.5	9.3	19.1 13.6			25.0 14.4		
Avg. Bronze Entries		B	4.2	5.0	6.8	Toms Hens	5.7	9.5	19.6 13.9			25.7 14.7		
Avg. White Entries		W	5.0	6.0	6.7	Toms Hens	5.3	9.0	18.1 13.1			23.6 13.7		

* Both sexes

MINNESOTA CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST (Albert Lea)

Eviscerated		Breast Width	Body Depth	Keel Length	Over-All Quality % U. S. Grade			% U. S. Grade A For:			Percent With:				Entrant
Weight	Yield				A	B	C	Fleshing	Finish	Freedom of Pin- Feathers	Penou- lous Crop	Roach Back	Leg Weak- ness	Breast Blisters	
(lbs)	(%)														
20.6 10.8	82.7 78.1	3.7 2.9	9.3 7.2	7.4 6.0	100.0 95.7	0.0 4.3	0.0 0.0	95.7	100.0	100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	1. Anderson
21.4 11.4	82.0 77.9	3.5 2.9	9.6 7.5	7.6 6.3	100.0 94.4	0.0 5.6	0.0 0.0	94.4	94.4	100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	2. Browning
18.4 10.4	81.9 77.8	3.5 2.9	9.5 7.4	7.3 5.8	90.0 78.3	0.0 21.7	10.0 0.0	78.3	95.7	100.0	5.0 0.0	5.0 0.0	0.0 0.0	0.0 0.0	3. Calif. Royal
18.8 10.9	81.2 78.6	3.8 3.3	9.1 7.3	7.0 5.9	100.0 95.0	0.0 5.0	0.0 0.0	95.0	100.0	100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	4. Gozzi
21.5 11.7	82.4 79.4	3.8 3.1	9.3 7.3	7.5 6.0	95.5 100.0	4.5 0.0	0.0 0.0	100.0	100.0	100.0	4.5 0.0	0.0 0.0	0.0 0.0	0.0 0.0	5. Janssen
19.3 10.5	81.8 79.0	3.8 3.1	9.2 7.2	6.8 5.8	95.7 100.0	4.3 0.0	0.0 0.0	100.0	100.0	100.0	4.3 0.0	0.0 0.0	0.0 0.0	0.0 0.0	6. Janssen
20.8 11.7	82.7 78.6	3.7 3.1	9.3 7.4	7.5 6.2	100.0 100.0	0.0 0.0	0.0 0.0	100.0	100.0	100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	7. Land O'Lakes
20.0 10.7	82.5 78.2	3.6 3.1	9.2 7.1	7.2 6.0	100.0 86.7	0.0 13.3	0.0 0.0	86.7	86.7	100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	8. Land O'Lakes
20.9 11.4	82.9 78.8	3.6 2.9	9.7 7.5	7.5 6.1	95.5 90.0	0.0 10.0	4.5 0.0	90.0	90.0	90.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	9. Meadowbrook
20.4 11.7	82.7 79.1	3.8 3.0	9.4 7.5	7.2 5.9	95.2 100.0	0.0 0.0	4.8 0.0	100.0	100.0	100.0	0.0 0.0	4.8 0.0	0.0 0.0	0.0 0.0	10. Nicholas
20.1 11.4	81.3 78.5	3.6 3.1	9.6 7.6	7.4 6.0	100.0 100.0	0.0 0.0	0.0 0.0	100.0	100.0	100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	11. Nicholas
21.5 11.6	83.2 80.0	4.1 3.3	8.9 7.0	7.1 5.9	95.0 95.7	0.0 4.3	5.0 0.0	100.0	100.0	100.0	0.0 0.0	5.0 4.3	0.0 0.0	0.0 0.0	12. Rose-A-Linda
23.0 11.8	82.3 78.4	3.4 2.8	9.8 7.6	8.1 6.5	86.4 90.5	4.5 9.5	9.1 0.0	90.5	100.0	100.0	0.0 4.8	4.5 0.0	0.0 0.0	9.1 0.0	13. Welkona
20.4 11.4	81.9 78.0	3.5 2.9	9.5 7.5	7.4 6.4	95.5 95.8	4.5 4.2	0.0 0.0	95.8	100.0	100.0	0.0 0.0	0.0 0.0	0.0 0.0	4.5 0.0	14. Welp
19.1 10.5	81.3 76.9	3.4 3.0	9.4 7.5	7.3 6.1	100.0 95.2	0.0 4.8	0.0 0.0	95.2	100.0	100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	15. Welp
23.3 12.6	82.3 79.5	3.8 3.2	9.4 7.5	7.7 6.3	94.7 100.0	5.3 0.0	0.0 0.0	100.0	100.0	100.0	0.0 0.0	0.0 0.0	0.0 0.0	5.3 0.0	16. Williams
20.6 11.3	82.2 78.6	3.6 3.0	9.4 7.4	7.4 6.1	96.5 94.8	1.4 5.2	2.1 0.0	95.1	97.9	99.4	0.9 0.3	1.2 0.3	0.0 0.0	1.2 0.0	Average All Entries
21.4 11.6	82.5 78.8	3.7 3.0	9.4 7.4	7.5 6.2	95.8 96.2	1.9 3.8	2.3 0.0	96.6	98.4	99.0	0.5 0.5	1.4 0.4	0.0 0.0	1.9 0.0	Avg. Bronze Entries
19.3 10.7	81.7 78.2	3.6 3.1	9.3 7.4	7.2 5.9	97.6 92.5	0.7 7.5	1.7 0.0	92.5	97.1	100.0	1.6 0.0	0.8 0.0	0.0 0.0	0.0 0.0	Avg. White Entries

CENTRAL TURKEY MEAT PRODUCTION TEST OF NEBRASKA (Bronze)

ENTRANT	STRAIN OR TRADE NAME	COLOR	MORTALITY (%) [*]			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION	
			2 WEEKS	8 WEEKS	END OF TEST		WEEKS	12* WEEKS	WEEKS	21 WEEKS	WEEKS	26 WEEKS	METHOD 1	METHOD 2
1. Browning Kentucky	Browning	B	4.0	4.0	8.0	Toms Hens		9.3		15.2		27.5		
2. Hart Oregon	Hart-Schneider	B	2.0	3.0	3.0	Toms Hens		8.6		14.9		25.8		
3. Janes Texas	Janes Male	B	0.0	0.0	3.0	Toms Hens		8.8		15.5		25.1		
4. Janssen Michigan	Janssen "Dutch Boy"	B	2.0	3.0	9.0	Toms Hens		9.1		16.1		27.6		
5. Kimber California	Kimber KB-33	B	3.0	5.0	7.0	Toms Hens		8.9		15.3		26.3		
6. Nicholas California	Nicholas Male Line	B	6.0	9.0	12.0	Toms Hens		8.9		16.0		26.5		
7. Waite Missouri	Waite's "King Size"	B	0.0	0.0	4.0	Toms Hens		9.4		15.5		27.6		
8. Washore Oregon	Washore 400 (PS)	B	3.0	3.0	7.0	Toms Hens		9.5		15.9		28.5		
9. Welkona Iowa	Welkona-Wheeler	B	0.0	1.0	5.0	Toms Hens		9.1		15.1		27.1		
10. Welkona Oregon	Wheeler	B	1.0	5.0	7.0	Toms Hens		9.7		16.0		28.3		
11. Wenzel Illinois	Wenzel	B	1.0	4.0	5.0	Toms Hens		9.3		15.6		27.3		
12. Williams California	Williams	B	0.0	4.0	10.0	Toms Hens		9.6		16.5		28.2		
Avg. Bronze Entries		B	1.8	3.4	6.7	Toms Hens		9.3		15.6		27.2		

* Both sexes

Statistical Significance of Differences Between Entries

Final Live Weight

Toms														
Entry No.	8	10	12	4	7	1	11	9	6	5	2	3		

Hens														
Entry No.	12	4	6	10	8	11	3	7	5	1	9	2		

Eviscerated Weight

Toms														
Entry No.	12	8	10	4	6	1	11	7	9	5	2	3		

Hens														
Entry No.	12	6	4	10	8	3	11	5	7	9	1	2		

Eviscerated Yield

Toms														
Entry No.	6	4	3	12	9	2	5	11	10	1	8	7		

Hens														
Entry No.	6	3	4	11	9	5	12	2	1	10	8	7		

CENTRAL TURKEY MEAT PRODUCTION TEST OF NEBRASKA (Bronze)

EVisCERATED		BREAST WIDTH	BODY DEPTH	KEEL LENGTH	OVER-ALL QUALITY % U. S. GRADE			% U. S. GRADE A FOR:			PERCENT WITH:				ENTRANT
WEIGHT	YEILD				A	B	C	FLESHING	FINISH	FREEDOM OF PIN- FEATHERS	PENDU- LOUS CROP	ROACH BACK	LEG WEAK- NESS	BREAST BLISTERS	
(lbs)	(%)	INCHES	INCHES	INCHES											
22.1	80.8	4.8	8.8	7.9	82.9	17.1	0.0				0.0	0.0	0.0	0.0	1.
12.2	80.1	4.6	6.8	6.3	97.8	0.0	2.2				2.2	0.0	0.0	0.0	Browning
20.9	81.1	5.0	8.5	7.6	89.1	10.9	0.0				0.0	0.0	0.0	0.0	2.
12.0	80.5	4.8	6.7	6.1	87.8	9.8	2.4				0.0	0.0	0.0	0.0	Hart
20.6	82.2	5.6	8.1	7.2	90.9	9.1	0.0				0.0	0.0	0.0	0.0	3.
12.7	81.5	5.3	6.5	5.9	95.2	4.8	0.0				0.0	0.0	0.0	0.0	Janes
22.7	82.4	5.8	8.4	7.5	93.3	6.7	0.0				0.0	0.0	0.0	0.0	4.
13.1	81.3	5.2	6.7	6.1	94.6	5.4	0.0				5.4	0.0	0.0	0.0	Janssen
21.3	81.1	5.3	8.3	7.4	89.2	10.8	0.0				0.0	0.0	2.7	0.0	5.
12.4	80.9	4.9	6.7	6.2	91.3	8.7	0.0				0.0	0.0	0.0	0.0	Kimber
22.1	83.6	6.3	8.1	7.0	91.2	8.8	0.0				0.0	0.0	0.0	0.0	6.
13.1	82.1	5.7	6.4	5.7	92.1	5.3	2.6				0.0	0.0	0.0	0.0	Nicholas
22.0	79.9	4.4	8.8	7.9	84.6	13.5	1.9				1.9	0.0	0.0	0.0	7.
12.4	79.7	4.3	6.9	6.3	97.5	0.0	2.5				2.5	0.0	0.0	0.0	Waite
22.9	80.3	4.9	9.1	7.9	87.5	10.0	2.5				5.0	0.0	0.0	0.0	8.
12.7	79.8	4.5	6.9	6.3	93.6	4.3	2.1				2.1	0.0	0.0	0.0	Washore
22.0	81.3	4.8	8.8	7.8	85.4	12.5	2.1				0.0	0.0	4.2	0.0	9.
12.3	81.0	4.5	6.9	6.2	95.6	4.4	0.0				0.0	0.0	0.0	0.0	Welkona
22.9	80.8	5.0	8.9	8.0	90.7	5.6	3.7				0.0	0.0	1.9	1.9	10.
12.8	79.9	4.6	7.1	6.3	82.8	14.3	2.9				0.0	0.0	0.0	0.0	Welkona
22.1	81.0	5.1	8.6	7.7	89.4	10.6	0.0				0.0	0.0	0.0	0.0	11.
12.6	81.1	4.7	6.8	6.1	94.9	5.1	0.0				0.0	0.0	0.0	0.0	Wenzel
23.0	81.4	5.5	8.5	7.6	89.6	8.3	2.1				0.0	0.0	0.0	0.0	12.
13.3	80.8	5.1	6.7	6.2	92.1	7.9	0.0				0.0	0.0	0.0	0.0	Williams
22.1	81.4	5.2	8.6	7.6	88.7	10.3	1.0				0.6	0.0	0.7	0.2	Avg. Bronze
12.6	80.7	4.9	6.8	6.2	93.0	5.8	1.2				1.0	0.0	0.0	0.0	Entries

Statistical Significance of Differences Between Entries

Breast Width

Toms															
Entry No.	6	4	3	12	5	11	10	2	8	9	1	7			
Hens															
Entry No.	6	3	4	12	5	2	11	10	1	8	9	7			

Body Depth

Toms															
Entry No.	8	10	7	9	1	11	12	2	4	5	3	6			
Hens															
Entry No.	10	7	8	9	1	11	4	12	5	2	3	6			

Keel Length

Toms															
Entry No.	10	7	1	8	9	11	2	12	4	5	3	6			
Hens															
Entry No.	7	8	10	1	9	12	5	11	2	4	3	6			

CENTRAL TURKEY MEAT PRODUCTION TEST OF NEBRASKA (White)

ENTRANT	STRAIN OR TRADE NAME	COLOR	MORTALITY (%)*			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION	
			2 WEEKS	8 WEEKS	END OF TEST		8* WEEKS	12* WEEKS	16 WEEKS	21 WEEKS	24 WEEKS	26 WEEKS	METHDD 1	METHDD 2
1. Anderson Massachusetts	Blockbuster White	W	2.0	2.0	6.0	Toms Hens	5.0	8.9	15.0 11.5	14.8	25.9	27.1	3.77 3.21	
2. Calif. Royal California	Silver Auburn	W	0.0	2.0	6.0	Toms Hens	4.9	8.9	15.3 11.2	13.4	24.2	26.7	3.74 3.64	
3. Janssen Michigan	Janssen "Dutch Boy"	W	0.0	1.0	3.0	Toms Hens	4.7	8.7	15.2 11.0	13.6	24.2	25.8	3.99 3.55	
4. Kimber California	Kimber KW-66	W	0.0	1.0	2.0	Toms Hens	5.0	9.2	14.3 11.2	13.8	23.5	25.8	3.94 3.37	
5. Nicholas California	Nicholas	W	1.0	1.0	8.0	Toms Hens	5.4	9.6	16.3 11.3	14.5	23.7	26.0	4.07 3.40	
6. Segars California	Segars	W	2.0	2.0	11.0	Toms Hens	5.1	9.3	15.8 11.8	14.9	23.8	27.0	3.90 3.36	
Avg. White Entries		W	0.8	1.5	6.0	Toms Hens	5.0	9.1	15.3 11.3	14.2	24.2	26.3	3.90 3.42	

* Both sexes

Statistical Significance of Differences Between Entries

Final Live Weight

Toms														
Entry No.	1	6	2	5	4	3								

Hens														
Entry No.	6	1	5	4	3	2								

Eviscerated Weight

Toms														
Entry No.	6	1	2	5	4	3								

Hens														
Entry No.	6	1	5	4	3	2								

Eviscerated Yield

Toms														
Entry No.	6	5	1	4	2	3								

Hens														
Entry No.	2	3	5	6	1	4								

CENTRAL TURKEY MEAT PRODUCTION TEST OF NEBRASKA (White)

EVisCERATED		BREAST WIDTH	BODY DEPTH	KEEL LENGTH	OVER-ALL QUALITY % U. S. GRADE			% U. S. GRADE A FOR:			PERCENT WITH:				ENTRANT
WEIGHT	YEILD				A	B	C	FLESHING	FINISH	FREEDOM OF PIN- FEATHERS	PENDU- LOUS CROP	ROACH BACK	LEG WEAK- NESS	BREAST BLISTERS	
(lbs)	(%)	INCHES	INCHES	INCHES											
21.8	80.4	5.8	8.2	7.0	84.4	15.6	0.0				3.1	0.0	3.1	0.0	1.
11.8	80.2	5.1	6.4	5.7	92.8	3.6	3.6				0.0	0.0	0.0	0.0	Anderson
21.4	80.1	4.9	8.6	7.3	92.5	7.5	0.0				0.0	0.0	0.0	0.0	2.
10.9	81.0	4.4	6.6	5.9	86.1	11.6	2.3				2.3	0.0	0.0	0.0	Calif. Royal
20.6	80.0	5.3	8.3	7.0	84.8	13.0	2.2				0.0	0.0	0.0	0.0	3.
11.0	80.6	4.7	6.4	5.6	93.2	6.8	0.0				0.0	0.0	0.0	0.0	Janssen
20.7	80.2	5.0	8.3	7.3	95.1	4.9	0.0				0.0	0.0	0.0	0.0	4.
11.0	79.6	4.6	6.5	5.9	92.3	7.7	0.0				1.9	0.0	0.0	0.0	Kimber
20.9	80.6	4.8	8.7	7.3	83.3	14.3	2.4				2.4	0.0	0.0	0.0	5.
11.6	80.5	4.7	6.6	6.0	97.5	2.5	0.0				2.5	0.0	0.0	0.0	Nicholas
21.8	80.9	5.1	8.5	7.3	97.3	2.7	0.0				0.0	0.0	0.0	0.0	6.
12.0	80.4	4.7	6.7	5.9	97.8	0.0	2.2				0.0	0.0	0.0	0.0	Segars
21.2	80.4	5.2	8.4	7.2	89.6	9.7	0.7				0.9	0.0	0.5	0.0	Avg. White
11.4	80.4	4.7	6.5	5.8	93.3	5.4	1.3				1.1	0.0	0.0	0.0	Entries

Statistical Significance of Differences Between Entries

Breast Width

Toms															
Entry No.	<u>1</u>		3		<u>6</u>		4		<u>2</u>						5

Hens															
Entry No.	<u>1</u>		3		<u>6</u>		5		<u>4</u>						<u>2</u>

Body Depth

Toms															
Entry No.	<u>5</u>		<u>2</u>		<u>6</u>		3		<u>4</u>						1

Hens															
Entry No.	<u>6</u>		<u>5</u>		<u>2</u>		4		<u>1</u>						3

Keel Length

Toms															
Entry No.	<u>2</u>		<u>6</u>		<u>5</u>		4		<u>1</u>						3

Hens															
Entry No.	<u>5</u>		<u>4</u>		<u>2</u>		6		<u>1</u>						<u>3</u>

NORTH CAROLINA RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

ENTRANT	STRAIN OR TRADE NAME	COLOR	MORTALITY (%) [*]			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION [*]	
			2 WEEKS	8 WEEKS	END OF TEST		WEEKS	12 WEEKS	WEEKS	21 WEEKS	WEEKS	24 WEEKS	METHOD 1	METHOD 2
1. Anderson Massachusetts	Anderson	B	2.0	4.0	6.0	Toms Hens		10.4 8.4		20.3 14.8		25.7	3.80	3.46
2. Browning Kentucky	Browning	B	1.0	2.0	7.6	Toms Hens		10.6 8.1		21.3 14.8		25.5	3.99	3.55
3. Hart Oregon	Hart-Schneider	B	2.0	3.0	9.4	Toms Hens		9.5 7.2		19.8 13.1		24.6	3.63	3.34
4. Janssen Michigan	Janssen "Dutch Boy"	B	3.0	3.0	8.8	Toms Hens		10.3 8.4		20.1 14.6		25.0	3.76	3.36
5. Janssen Michigan	Janssen "Dutch Boy"	W	3.0	4.0	10.5	Toms Hens		9.5 7.5		19.5 13.5		23.3	3.74	3.36
6. Johnson North Carolina	Johnson	B	7.0	9.0	12.5	Toms Hens		8.7 7.1		18.4 13.3		22.8	3.66	3.41
7. Kimber California	Kimber KB-33	B	0.0	3.0	5.0	Toms Hens		10.1 7.9		20.8 14.7		25.8	3.84	3.51
8. Kimber California	Kimber KW-66	W	2.0	4.0	7.5	Toms Hens		10.0 7.7		20.3 14.0		24.0	3.97	3.62
9. Poultry Dept. North Carolina	Experimental Control	B	4.2	5.3	13.6	Toms Hens		9.9 7.9		19.4 14.4		23.7	4.08	3.52
10. Williams California	Williams	B	2.0	3.0	4.0	Toms Hens		10.5 8.2		20.8 14.5		25.7	3.78	3.44
Average All Entries		B & W	2.6	4.0	8.5	Toms Hens		10.0 7.8		20.1 14.2		24.6	3.83	3.46
Avg. Bronze Entries		B	2.7	4.0	8.4	Toms Hens		10.0 7.9		20.1 14.3		24.9	3.82	3.45
Avg. White Entries		W	2.5	4.0	9.0	Toms Hens		9.8 7.6		19.9 13.8		23.7	3.86	3.49

* Both sexes

Statistical Significance of Differences Between Entries

Final Live Weight

Toms										
Entry No.	7	1	10	2	4	3	8	9	5	6
Hens										
Entry No.	1	2	7	4	10	9	8	5	6	3

Eviscerated Weight

Toms										
Entry No.	7	10	1	2	4	3	8	9	6	5
Hens										
Entry No.	1	4	7	2	10	9	8	6	5	3

Eviscerated Yield

Toms										
Entry No.	6	4	8	9	2	10	7	1	3	5
Hens										
Entry No.	6	4	7	1	5	10	8	3	9	2

NORTH CAROLINA RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

Eviscerated		Breast Width	Body Depth	Keel Length	OVER-ALL QUALITY % U. S. GRADE			% U. S. GRADE A FOR:			PERCENT WITH:				Entrant
Weight	Yield				A	B	C	Fleshing	Finish	Freedom of Pin-Feathers	Pendulous Crop	Roach Back	Leg Weakness	Breast Blisters	
(lbs)	(%)	Inches	Inches	Inches											
21.0	81.6	4.5	8.7	7.2	82.0	15.4	2.6	100.0	100.0	100.0	2.6	0.0	0.0	0.0	1.
11.8	80.0	4.8	6.8	5.7	82.9	9.8	7.3	97.6	100.0	100.0	7.3	0.0	0.0	0.0	Anderson
21.0	82.0	3.9	9.2	7.6	75.8	18.9	5.3	100.0	100.0	100.0	0.0	0.0	0.0	5.3	2.
11.6	78.7	4.0	7.2	6.0	87.5	7.5	5.0	100.0	100.0	100.0	0.0	0.0	0.0	2.5	Browning
19.9	81.2	4.1	8.8	7.3	84.4	10.3	5.3	100.0	100.0	100.0	0.0	0.0	0.0	5.3	3.
10.4	79.7	4.2	6.9	5.7	89.7	10.3	0.0	94.9	100.0	100.0	0.0	0.0	0.0	2.6	Hart
20.8	83.0	4.4	8.7	7.2	92.5	7.5	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	4.
11.8	80.9	4.6	6.9	5.8	89.5	10.5	0.0	94.7	100.0	100.0	0.0	0.0	0.0	0.0	Janssen
18.8	80.8	4.3	8.6	6.8	94.8	2.6	2.6	100.0	100.0	100.0	0.0	0.0	0.0	2.6	5.
10.8	79.7	4.4	6.7	5.4	97.5	2.5	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	Janssen
19.0	83.2	4.1	8.6	6.9	90.6	7.1	2.3	100.0	100.0	100.0	0.0	0.0	0.0	2.3	6.
10.9	81.9	4.6	6.8	5.6	91.4	2.9	5.7	100.0	100.0	100.0	2.9	0.0	0.0	0.0	Johnson
21.1	81.8	4.2	8.9	7.4	85.0	7.5	7.5	100.0	100.0	100.0	0.0	2.5	0.0	7.5	7.
11.8	80.1	4.6	6.9	5.9	95.0	2.5	2.5	97.5	100.0	100.0	0.0	0.0	0.0	0.0	Kimber
19.9	82.9	4.2	8.7	7.3	83.8	10.6	5.6	100.0	100.0	100.0	0.0	2.7	0.0	5.6	8.
11.1	79.7	4.3	6.9	5.7	97.6	0.0	2.4	100.0	100.0	100.0	2.4	0.0	0.0	0.0	Kimber
19.5	82.6	4.2	8.8	7.1	74.0	22.7	3.3	96.9	100.0	100.0	0.0	3.3	0.0	3.3	9.
11.3	78.9	4.4	7.0	6.1	92.3	7.7	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	Poultry Dept.
21.0	82.0	4.1	9.0	7.3	94.9	5.1	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	10.
11.5	79.7	4.5	7.0	5.8	87.8	7.4	4.8	97.6	100.0	100.0	2.4	2.4	0.0	0.0	Williams
20.2	82.1	4.2	8.8	7.2	85.8	10.8	3.5	99.7	100.0	100.0	0.3	0.8	0.0	3.2	Average All
11.3	80.8	4.4	6.9	5.8	91.1	6.1	2.8	98.2	100.0	100.0	1.5	0.2	0.0	0.5	Entries
20.4	82.2	4.2	8.8	7.3	84.9	11.8	3.3	99.6	100.0	100.0	0.3	0.7	0.0	3.0	Avg. Bronze
11.4	81.1	4.5	6.9	5.8	89.5	7.3	3.2	97.8	100.0	100.0	1.6	0.3	0.0	0.6	Entries
19.4	81.9	4.3	8.7	7.1	89.3	6.6	4.1	100.0	100.0	100.0	0.0	1.4	0.0	4.1	Avg. White
11.0	79.7	4.4	6.8	5.6	97.6	1.3	1.2	100.0	100.0	100.0	1.2	0.0	0.0	0.0	Entries

Statistical Significance of Differences Between Entries

Breast Width

Toms															
Entry No.	1	4	5	7	8	6	9	10	3	2					

Hens

Entry No.	1	7	4	6	10	9	5	8	3	2					
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Body Depth

Toms															
Entry No.	2	10	7	3	9	8	4	1	6	5					

Hens

Entry No.	2	9	10	7	3	4	8	1	6	5					
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Keel Length

Toms															
Entry No.	2	7	3	8	10	4	1	9	6	5					

Hens

Entry No.	9	2	7	10	4	1	3	8	6	5					
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NORTH DAKOTA CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

ENTRANT	STRAIN OR TRADE NAME	COLOR	MORTALITY (%)*			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION	
			2 WEEKS	12 WEEKS	END OF TEST		WEEKS	WEEKS	12 WEEKS	WEEKS	20 WEEKS	25 WEEKS	METHOD 1	METHOD 2
1. Browning Kentucky	Browning	B	1.0	7.0	8.0	Toms Hens			10.2 8.2		20.0 14.1	26.4		
2. Janssen Michigan	Janssen Dutch Boy	B	0.0	13.0	13.0	Toms Hens			10.1 8.2		20.1 14.6	26.9		
3. Janssen Michigan	Janssen Dutch Boy	W	1.0	16.0	17.0	Toms Hens			9.1 7.4		18.2 12.7	24.4		
4. Kimber California	KB-33	B	2.0	9.0	9.0	Toms Hens			9.5 7.7		18.9 13.9	25.3		
5. Kimber California	KW-66	W	2.0	6.0	12.0	Toms Hens			9.6 8.0		18.4 13.6	24.2		
6. Nakota North Dakota	Nicholas	W	4.0	9.0	10.0	Toms Hens			10.2 8.1		18.8 13.4	24.5		
7. Nicholas California	Nicholas	W	5.0	8.0	13.0	Toms Hens			10.4 8.6		18.8 14.0	24.3		
8. Welkona Iowa	Welkona-Wheeler	B	1.0	4.0	8.0	Toms Hens			10.5 8.4		20.4 14.4	27.4		
9. Williams California	Williams	B	2.0	10.0	16.0	Toms Hens			10.5 8.1		20.4 15.0	27.3		
Average All Entries		B & W	2.0	9.5	11.8	Toms Hens			10.0 8.1		19.3 14.0	25.6		
Avg. Bronze Entries		B	1.0	9.0	10.8	Toms Hens			10.2 8.2		19.9 14.4	26.7		
Avg. White Entries		W	3.0	10.0	13.0	Toms Hens			9.8 8.0		18.5 13.4	24.4		

* Both sexes

Statistical Significance of Differences Between Entries

Final Live Weight

Toms														
Entry No.	8	9	2	1	4	6	3	7	5					

Hens														
Entry No.	9	2	8	1	7	4	5	6	3					

Eviscerated Weight

Toms														
Entry No.	8	9	2	1	4	6	5	3	7					

Hens														
Entry No.	Not Reported													

Eviscerated Yield

Toms														
Entry No.	2	5	4	8	7	6	9	3	1					

Hens														
Entry No.	Not Reported													

NORTH DAKOTA CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST

EVisCERATED		BREAST WIDTH	BODY DEPTH	KEEL LENGTH	OVER-ALL QUALITY % U. S. GRADE			% U. S. GRADE A FOR:			PERCENT WITH:				ENTRANT
WEIGHT	YEILD				A	B	C	FLESHING	FINISH	FREEDOM OF PIN- FEATHERS	PENDU- LOUS CROP	ROACH BACK	LEG WEAK- NESS	BREAST BLISTERS	
(lbs)	(%)	INCHES	INCHES	INCHES											
21.2	80.2	6.0 4.8	9.5 7.1	8.0 6.4	90.7	2.3	7.0	100.0	97.7	100.0	0.0	0.0	0.0	7.0	1. Browning
22.0	81.8	7.0 5.3	9.1 6.9	7.7 6.1	85.1	10.6	4.3	100.0	93.6	100.0	2.1	8.5	0.0	0.0	2. Janssen
19.6	80.4	6.3 4.8	8.8 6.7	7.2 5.7	78.6	14.3	7.1	100.0	92.9	100.0	4.8	7.1	0.0	0.0	3. Janssen
20.6	81.5	6.4 5.0	9.0 6.9	7.6 6.1	84.5	11.1	4.4	100.0	91.1	100.0	0.0	0.0	0.0	6.7	4. Kimber
19.7	81.5	6.1 4.8	9.0 6.8	7.4 5.8	80.0	20.0	0.0	100.0	87.8	100.0	2.4	2.4	0.0	0.0	5. Kimber
19.8	80.8	6.0 4.6	9.1 6.8	7.3 5.8	87.9	12.1	0.0	100.0	97.0	100.0	0.0	9.1	0.0	0.0	6. Nakota
19.6	80.8	5.8 4.8	9.1 6.9	7.3 6.0	79.6	13.6	6.8	100.0	88.6	100.0	4.5	6.8	0.0	2.3	7. Nicholas
22.2	80.9	6.1 4.7	9.6 7.2	8.0 6.4	86.4	4.5	9.1	100.0	100.0	100.0	0.0	6.8	0.0	6.8	8. Welkona
22.1	80.8	6.8 5.2	9.2 7.0	7.7 6.2	84.2	7.9	7.9	100.0	92.1	100.0	2.6	0.0	0.0	5.3	9. Williams
20.8	81.0	6.3 4.9	9.2 6.9	7.6 6.1	84.1	10.7	5.2	100.0	93.4	100.0	1.8	4.5	0.0	3.1	Average All Entries
21.6	81.0	6.5 5.0	9.3 7.0	7.8 6.2	86.2	7.3	6.5	100.0	94.9	100.0	0.9	3.1	0.0	5.2	Avg. Bronze Entries
19.7	80.9	6.1 4.8	9.0 6.8	7.3 5.8	81.5	1.5	0.3	100.0	91.6	100.0	2.9	6.4	0.0	0.6	Avg. White Entries

Statistical Significance of Differences Between Entries

Breast Width

Toms															
Entry No.	<u>2</u>	<u>9</u>	4	3	5	8	1	6	7						
Hens															
Entry No.	<u>2</u>	<u>9</u>	4	5	7	3	1	8	6						

Body Depth

Toms															
Entry No.	8	1	9	7	6	2	4	5	3						
Hens															
Entry No.	8	1	9	7	4	2	6	5	3						

Keel Length

Toms															
Entry No.	1	8	9	2	4	5	6	7	3						
Hens															
Entry No.	1	8	9	4	2	7	5	6	3						

CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST OF PENNSYLVANIA

ENTRANT	STRAIN OR TRADE NAME	COLOR	MORTALITY (%) [*]			SEX	AVERAGE LIVE WEIGHT (lbs)						FEED CONVERSION	
			2 WEEKS	8 WEEKS	END OF TEST		WEEKS	6 WEEKS	8 WEEKS	12 WEEKS	22 WEEKS	25 WEEKS	METHOD 1	METHOD 2
1. Anderson Massachusetts	Anderson	B	0.0	0.0	2.0	Toms Hens		2.4 2.1	4.8 4.0	11.4 9.0	28.0 18.4	32.6	3.44 3.37	3.41 3.35
2. Browning Kentucky	Browning	B	1.7	2.5	10.5	Toms Hens		2.4 2.0	4.5 3.8	10.3 8.2	23.6 15.5	27.4	4.08 3.45	3.80 3.45
3. Ephrata Pennsylvania	Ephrata	W	1.7	1.7	1.7	Toms Hens		2.2 1.9	4.4 3.7	9.8 7.5	24.0 14.7	27.9	3.57 3.58	3.57 3.58
4. Gozzi Connecticut	Gozzi	W	0.8	0.8	3.8	Toms Hens		2.2 1.8	4.2 3.4	9.7 7.4	23.5 14.9	26.8	3.82 3.51	3.71 3.48
5. Janssen Michigan	Janssen "Dutch Boy"	B	0.0	2.5	5.5	Toms Hens		2.9 2.1	4.5 4.0	9.7 8.5	25.9 17.4	30.2	3.47 3.49	3.41 3.45
6. Janssen Michigan	Janssen "Dutch Boy"	W	2.5	4.7	4.7	Toms Hens		2.0 1.8	4.0 3.5	8.8 7.5	22.8 14.9	25.8	3.59 3.72	3.59 3.72
7. Meadowbrook California	Meadowbrook MBX-100	B	0.8	2.5	6.5	Toms Hens		2.3 2.0	4.6 3.9	10.6 8.4	25.0 16.6	29.5	3.54 3.51	3.44 3.51
8. Nicholas California	Nicholas	B	1.7	3.3	6.3	Toms Hens		2.3 2.1	4.7 4.0	11.1 8.4	25.9 17.6	30.5	3.42 3.22	3.32 3.22
9. Nicholas California	Nicholas	W	3.3	3.3	4.3	Toms Hens		2.6 2.0	4.9 4.0	10.9 8.5	25.4 16.0	28.7	3.85 3.63	3.81 3.63
10. Palmateer Pennsylvania	Experimental	B	0.8	2.5	3.5	Toms Hens		2.3 2.0	4.6 3.9	10.6 8.4	25.0 16.6	29.0	3.44 3.35	3.40 3.35
11. Palmateer Pennsylvania	Rose-A-Linda	W	3.3	3.3	9.3	Toms Hens		2.2 1.9	4.3 3.7	9.4 7.9	23.5 15.1	26.9	3.74 3.59	3.61 3.56
12. Schultz New York	Schultz	W	0.0	1.7	1.7	Toms Hens		2.3 2.0	4.5 3.8	9.9 7.9	25.1 15.4	28.7	3.59 3.49	3.59 3.49
13. Segars California	Segars	W	1.7	3.3	6.3	Toms Hens		2.3 2.0	4.5 3.8	10.0 8.1	25.1 15.5	29.1	3.81 3.70	3.73 3.70
14. Shearer Pennsylvania	Shearer	B	1.0	1.0	1.0	Toms Hens		2.2 2.0	4.5 3.8	10.6 7.9	24.8 16.4	28.5	3.50 3.27	3.50 3.27
15. Welkona Iowa	Welkona- Wheeler	B	1.7	5.0	5.0	Toms Hens		2.3 2.1	4.8 4.0	10.8 8.5	25.8 16.7	29.5	3.70 3.58	3.70 3.58
16. Wila Pennsylvania	Marcum	B	2.8	4.7	4.7	Toms Hens		1.9 1.7	3.9 3.2	9.2 7.0	23.5 15.0	26.6	3.47 3.32	3.47 3.32
17. Williams California	Williams	B	1.7	2.5	6.5	Toms Hens		2.4 2.1	4.8 4.1	10.9 8.4	25.4 17.7	29.6	3.88 3.47	3.67 3.47
Average All Entries		B & W	1.5	2.7	4.9	Toms Hens		2.3 2.0	4.5 3.8	10.2 8.1	24.8 15.1	28.7	3.64 3.49	3.57 3.48
Avg. Bronze Entries		B	1.2	2.7	5.2	Toms Hens		2.3 2.0	4.6 3.9	10.5 8.3	25.3 15.0	29.3	3.59 3.40	3.51 3.40
Avg. White Entries		W	1.9	2.7	4.5	Toms Hens		2.3 1.9	4.4 3.7	9.8 7.8	24.2 15.2	27.7	3.71 3.60	3.66 3.59

* Both sexes

CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST OF PENNSYLVANIA

Eviscerated		Breast Width Inches	Body Depth Inches	Keel Length Inches	Over-All Quality % U. S. Grade			% U. S. Grade A For:			Percent With:				Entrant
Weight (lbs)	Yield (%)				A	B	C	Fleshing	Finish	Freedom of Pin-Feathers	Pendulous Crop	Roach Back	Leg Weakness	Breast Blisters	
27.5 15.3	84.4 81.5	6.3 5.8	9.0 7.2	7.6 6.6	98.0 100.0	2.0 0.0	0.0 0.0	98.0 100.0	98.0 100.0	100.0 100.0	2.0 0.0	2.0 0.0	2.0 0.0	0.0 0.0	1. Anderson
22.9 12.8	84.7 82.6	4.9 4.4	9.1 7.1	7.6 6.5	97.6 91.7	2.4 8.3	0.0 0.0	97.6 100.0	100.0 91.7	100.0 100.0	0.0 0.0	2.4 0.0	0.0 0.0	0.0 0.0	2. Browning
23.1 12.2	82.8 83.0	5.7 5.2	8.8 6.8	7.1 6.1	100.0 98.0	0.0 2.0	0.0 0.0	100.0 98.0	100.0 100.0	100.0 100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	3. Ephrata
22.3 12.4	83.2 83.9	5.5 5.3	8.8 7.0	7.3 6.2	97.9 100.0	2.1 0.0	0.0 0.0	97.9 100.0	100.0 100.0	100.0 100.0	0.0 0.0	0.0 0.0	2.1 0.0	2.1 0.0	4. Gozzi
25.5 14.6	84.4 83.9	6.0 5.8	8.9 7.1	7.5 6.4	97.9 97.7	2.1 2.3	0.0 0.0	97.9 100.0	100.0 97.7	100.0 100.0	0.0 0.0	0.0 2.3	2.1 0.0	0.0 0.0	5. Janssen
21.8 12.4	84.5 82.6	5.4 5.2	8.5 6.9	7.0 6.1	98.0 100.0	2.0 0.0	0.0 0.0	100.0 100.0	98.0 100.0	100.0 100.0	0.0 0.0	2.0 0.0	2.0 0.0	0.0 0.0	6. Janssen
24.9 14.1	84.4 84.9	5.7 5.5	8.9 7.1	7.6 6.5	100.0 95.9	0.0 4.1	0.0 0.0	100.0 95.9	100.0 100.0	100.0 100.0	0.0 2.0	0.0 0.0	0.0 0.0	0.0 0.0	7. Meadowbrook
26.6 15.3	87.2 86.4	7.0 6.5	8.3 7.1	7.4 6.5	100.0 94.0	0.0 6.0	0.0 0.0	100.0 98.0	100.0 98.0	100.0 98.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	8. Nicholas
23.8 13.3	82.9 82.6	5.1 5.0	9.2 7.0	7.6 6.4	100.0 98.0	0.0 2.0	0.0 0.0	100.0 100.0	100.0 98.0	100.0 100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	9. Nicholas
24.8 14.2	85.5 85.5	6.4 5.9	8.5 6.9	7.4 6.4	98.0 97.9	0.0 2.1	0.0 0.0	100.0 97.9	98.0 100.0	100.0 100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	10. Palmateer
22.4 12.8	83.3 84.8	5.7 5.5	8.6 6.7	7.1 6.1	100.0 100.0	0.0 0.0	0.0 0.0	100.0 100.0	100.0 100.0	100.0 100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	11. Palmateer
24.2 12.9	84.3 83.8	5.8 5.2	8.8 7.1	7.3 6.4	100.0 98.0	0.0 2.0	0.0 0.0	100.0 100.0	100.0 98.0	100.0 100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	12. Schultz
24.6 12.9	84.5 83.2	5.2 4.9	9.2 7.1	7.6 6.4	93.5 98.0	6.5 2.0	0.0 0.0	95.7 98.0	97.8 98.0	100.0 100.0	2.2 2.0	0.0 0.0	0.0 0.0	0.0 0.0	13. Segar
24.8 14.0	87.0 85.4	6.6 6.0	8.4 7.0	7.3 6.3	98.0 97.6	2.0 2.4	0.0 0.0	98.0 97.6	100.0 100.0	100.0 100.0	2.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	14. Shearer
24.7 13.8	83.7 82.1	5.0 5.1	9.2 7.3	7.8 6.6	98.0 95.9	2.0 4.1	0.0 0.0	98.0 95.9	100.0 100.0	98.0 100.0	0.0 4.1	0.0 0.0	2.0 0.0	0.0 0.0	15. Welkona
22.7 12.7	85.3 83.3	6.4 5.7	8.3 6.9	7.3 6.1	100.0 97.9	0.0 2.1	0.0 0.0	100.0 100.0	100.0 100.0	100.0 97.9	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	16. Wila
24.9 14.6	84.1 82.5	5.6 5.6	8.9 7.2	7.6 6.5	93.5 98.0	6.5 2.0	0.0 0.0	95.7 100.0	95.7 98.0	100.0 100.0	0.0 2.0	2.2 0.0	6.5 0.0	6.5 0.0	17. Williams
24.2 13.5	84.5 83.6	5.8 5.4	8.8 7.0	7.4 6.4	98.3 97.6	1.6 2.4	0.0 0.0	98.8 98.9	99.3 98.8	99.9 99.8	0.4 0.6	0.5 0.1	1.0 0.0	0.5 0.0	Average All Entries
25.0 14.1	85.1 83.8	6.0 5.6	8.8 7.1	7.5 6.4	98.1 96.7	1.7 3.3	0.0 0.0	98.5 98.5	99.2 98.5	99.8 99.6	0.4 0.8	0.7 0.2	1.3 0.0	0.7 0.0	Avg. Bronze Entries
23.2 12.7	83.6 83.4	5.5 5.2	8.8 6.9	7.3 6.2	98.5 98.9	1.5 1.1	0.0 0.0	99.1 99.4	99.4 99.1	100.0 100.0	0.3 0.3	0.3 0.0	0.6 0.0	0.3 0.0	Avg. White Entries

CENTRAL RANDOM SAMPLE TURKEY MEAT PRODUCTION TEST OF PENNSYLVANIA

Statistical Significance of Differences Between Entries

Final Live Weight

Toms																		
Entry No.	1	8	5	17	15	7	13	10	9	12	14	3	2	11	4	16	6	
Hens																		
Entry No.	1	17	8	5	15	7	10	14	9	2	13	12	11	16	6	4	3	

Eviscerated Weight

Toms																		
Entry No.	1	8	5	7	17	10	14	15	13	12	9	3	2	16	11	4	6	
Hens																		
Entry No.	1	8	5	17	10	7	14	15	9	13	12	11	2	16	4	6	3	

Eviscerated Yield

Dressing percentage was reported by entries only, not by individual birds; therefore this method of analysis could not be applied.

Breast Width

Toms																		
Entry No.	8	14	16	10	1	5	12	11	7	3	17	4	6	13	9	15	2	
Hens																		
Entry No.	8	14	10	1	5	16	17	11	7	4	3	12	6	15	9	13	2	

Body Depth

Toms																		
Entry No.	9	13	15	2	1	7	17	5	12	4	3	11	6	10	14	8	16	
Hens																		
Entry No.	15	1	17	5	7	2	13	8	12	14	9	4	10	6	16	3	11	

Keel Length

Toms																		
Entry No.	15	7	13	9	17	1	2	5	10	8	14	12	16	4	3	11	6	
Hens																		
Entry No.	15	1	8	17	7	2	10	5	9	12	13	14	4	16	6	3	11	

1962 TURKEY MEAT PRODUCTION TESTS AND SUPERVISORS

California Random Sample Turkey Meat Production Test, Keyes

(Superintendent: Emery A. Johnson, Route 3, 2718 No. 99 Highway, Modesto)

Kansas Central Random Sample Turkey Meat Production Test

(Supervisor: Harry J. Reed, Kansas Poultry Association, P. O. Box 663, Manhattan)

Minnesota Central Random Sample Turkey Meat Production Test

(Supervisor: Robert E. Moehrle, State Office Building, St. Paul 1)

Central Turkey Meat Production Test of Nebraska

(Supervisor: John L. Skinner, Poultry Husbandry Building, University of Nebraska, Lincoln 3)

North Carolina Random Sample Turkey Meat Production Test, Salisbury

(Supervisor: G. A. Martin, Poultry Science Department, North Carolina State College, Raleigh)

North Dakota Central Random Sample Turkey Meat Production Test

(Supervisor: David Dickens, North Dakota Poultry Improvement Board, Bismarck)

Central Random Sample Turkey Meat Production Test of Pennsylvania

(Supervisor: Charles W. Dorsey, Department of Agriculture, Harrisburg)

STOCKS ENTERED IN 1962 TURKEY MEAT PRODUCTION TESTS

Strain or Trade Name	Tests Entered							Strain or Trade Name	Tests Entered						
	Calif.	Kans.	Minn.	Nebr.	N. C.	N. Dak.	Pa.		Calif.	Kans.	Minn.	Nebr.	N. C.	N. Dak.	Pa.
<u>Bronze</u>								<u>Bronze</u>							
Amerine	XX							Washore 400 (P.S.)				X			
Anderson					X		X	Welkona-Wheeler	X		X	X		X	X
Browning	X	X	X	X	X	X	X	Welp B 1020			X				
California Royal (SC)	X							Wenzel				X			
Palmateer								Wheeler				X			
Experimental							X	Williams	X		X	X	X	X	X
North Carolina								<u>White</u>							
Experimental					X			Anderson Blockbuster				X			
Hart-Schneider	XX			X	X			California Royal (SA)			X	X			
Janes Male Line				X				Ephrata							X
Janssen "Dutch Boy"	X		X	X	X	X	X	Gozzi 200			X				
Johnson					X			Gozzi 300							X
Kimber KB-33 (SC)		XX	X	X	X	X		Iowhite 1030			X				
Marcum							X	Janssen "Dutch Boy"	X	X	X	X	X	X	X
Meadowbrook								Kimber KW-66 (SC)		X	X	X	X	X	
MBX-100 (SC)	X		X				X	Meadowbrook (SC)	X						
Nicholas (SC)	X	X	X					Nicholas	X	X	X	X		XX	
Nicholas Male Line	X			X				Rose-A-Linda							X
Nordman			X					Schultz (SC)							X
Rose-A-Linda	X	X	X					Segars (SC)	X	X		X			X
Schmidt		X						Wilford		X					
Shearer							X	Wrolstad	X						
Waite's "King Size"		X		X											

INTRODUCTION

The primary objective of this summary is to present the test results in a manner that will support a sound evaluation of all stocks tested. The data presented are based on results reported by the 1962 Turkey Performance Tests and included on pages 10 to 29 of this publication.

All turkey meat production tests follow similar basic principles of operation. The entries in each test consist of poults hatched from random samples of eggs representing the stocks tested. All entries within a test are treated the same with respect to housing, feeding, management and disease control to avoid differences in performance due to differential treatment. However, there are differences between tests due to variations in climate and other environmental factors. Because of these differences, comparisons of the results for entries in different tests may be misleading.

The data presented in this summary are based on the results of all tests combined by stocks for each stock entered in one or more tests. The combined results, expressed as the Regressed Mean, are reported for each of the following traits: final live weight, feed conversion, eviscerated weight, eviscerated yield, breast width, body depth, keel length, and percent U. S. Grade A based on overall quality. The regressed mean for each stock and trait was determined by combining the results reported by all tests by accepted statistical procedures with adjustments for test differences. The regressed means may be used for valid comparisons of stocks entered in different tests. The regressed means and the accompanying least significant difference range for each trait provide a sound basis for comparing all stocks.

All stocks are listed in alphabetical order by breeder's name with regressed mean and LSD range for each trait. Each least significant difference (LSD) range was calculated, using the approximate standard error of the stock regressed means and the significant studentized range values for 10 at the 0.05 level of probability. It is essential, when comparing the performance of two stocks, to determine whether the regressed mean of one stock falls within the LSD range of the other stock. If it does, the odds are less than 19 in 20 that a real difference exists. If the regressed mean of a stock falls outside the LSD range of another stock, the odds are at least 19 in 20 that a real difference in performance between the two stocks does exist.

To avoid misinterpretation of the data, the following explanatory material should be reviewed carefully.

HOW TO TELL WHETHER DIFFERENCES ARE REAL

Errors of two kinds may influence the results of even the most carefully designed and operated tests. The first kind of possible error is the chance deviation or unavoidable "sampling error" which may be made when a small sample of eggs or poults represents an entry or stock. The other kind of possible error is due to uncontrolled or unknown environmental differences which may occur between entries within a test in spite of effort to treat each entry exactly alike. The differences between two entries in a single test, then, may be due to one or both of the above chance variations rather than to a real difference in the performance capabilities of the two stocks. The effect of the first kind of error may be materially reduced by making comparisons among stocks entered in several tests. If all stocks compared were entered in the same tests, the simple averages could be utilized without adjustment.

The data (regressed means) published in this summary are calculated from the results reported by several tests. It is unlikely, therefore, that the value of the regressed means for any stock, though perhaps entered in only one test, will be identical in value with the performance data published by the test officials. These differences may be attributed to adjustments for test differences, the number of tests entered and the number of entry replications per test.

The statistical treatment applied to these performance data is designed to reduce the influence of non-genetic variation. However, this cannot be accomplished perfectly. Consequently, estimates or predictions of performance cannot be made with absolute precision. Reliable predictions, within prescribed limitations, can be made as to whether a difference in the reported performance of two stocks represents a real difference in their performances. These predictions involve the use of the least significant difference (LSD) ranges which have been calculated for each trait analyzed.

As the name implies, the least significant difference range prescribes the approximate limits of difference which may be due to chance. Differences which exceed the LSD range probably are due to inherent differences between the stocks. The LSD range is a reliable guide for the appraisal of differences, but is not infallible. Appraisals of differences, based on the LSD range, may be wrong but the probability of such errors are considered in its computation.

As an aid to the evaluation of significant differences among stocks, the approximate LSD range at the 0.05 level of probability (19:1 odds) is given for each regressed mean in the alphabetical listing of all stocks. The LSD range of a stock represents the regressed mean plus or minus the LSD (less one unit of measurement) at the 0.05 level of probability (see Explanation of Terms). As an example, the LSD for Feed Conversion is 0.10 pounds at the 0.05 level of probability. Stock 1 has a regressed mean of 3.56 and an LSD range from 3.47 ($3.56 - 0.09$) to 3.65 ($3.56 + 0.09$) for this trait. Stock 101 has a regressed mean of 3.42 and an LSD range from 3.33 ($3.42 - 0.09$) to 3.51 ($3.42 + 0.09$) for the same trait. The two stocks are significantly different from one another since the regressed mean of one stock does not fall within the LSD range of the other. However, stock 122 with a regressed mean of 3.48 and stock 239 with a regressed mean of 3.50 are not significantly different from stock 1 since their regressed means fall within the LSD range for stock 1.

EXPLANATION OF TERMS

Stock:	A term used to identify the progeny of a specific breeding combination of turkeys. These breeding combinations may include pure strains, strain crosses, variety crosses, or combinations thereof.
Overall Mean:	The average of the test adjusted means for all stocks. This estimates what the overall average would have been had all stocks been entered in all tests.
Range:	The range represents the difference between the maximum and minimum performance among the 41 stocks, based on the regressed means.
Repeatability:	This figure can vary from 0.00 to 1.00. The higher the figure, the greater is the likelihood of stocks ranking in the same order from one test to another.
Correlation Among Replicates:	This correlation measures the repeatability among replicates of the same stock entered in the same test. It may vary from 0.00 to 1.00, but cannot be lower than the repeatability of stock performance between tests. The higher the correlation among replicates, the less need there is for replication of any stocks within tests. The difference between repeatability and the correlation among replicates is a measure of the importance of the test by stock interaction.
Test Adjustment Factor:	The amount by which a given test location was above or below the average for the five locations which reported data for all eight traits. These factors were determined on an intra-stock basis by least squares analysis.
Regressed Mean:	The test adjusted stock mean after weighting it according to the number of tests in which the stock was entered, the number of replicates per test, the repeatability, and the correlation among replicates.
Least Significant Difference:	The LSD prescribes the approximate limit of difference that may be due to chance. These values were computed from the approximate standard error of the regressed mean and the significant studentized range value for 10 means as given in Duncan's table for the 0.05 probability level.
LSD Range:	These figures represent the regressed mean of a stock plus and minus the LSD at the 5 percent level of probability (less one unit of measurement).

This summary presents analyzed performance data for the following traits: final live weight, feed conversion, eviscerated weight, eviscerated yield, breast width, body depth, keel length and percent U. S. Grade A. All data reported on these traits for the 41 stocks entered in seven random sample turkey meat production tests in 1962 were included in the combined analyses. These tests were conducted at nine different locations in California, Kansas, Minnesota (Albert Lea), Minnesota (Rush Point), Nebraska (Bronze), Nebraska (White), North Carolina, North Dakota and Pennsylvania. The data submitted for eight traits for the five locations in Kansas, Minnesota (Rush Point), North Carolina, Nebraska (White) and Pennsylvania were used for determination of the test effects in the computation of the regressed means.

The performance data by pens were analyzed, using least-squares procedures to obtain the test adjustment factors, Table 1, and the repeatability estimates, Table 2, for each trait. The correlation among replicates, Table 2, is the correlation among pen means for the same stock within a test. In order that the results for all traits have a comparable environmental basis, the test adjustment factors were expressed as a plus or minus deviation from the average (see preceding paragraph). These factors were then used to adjust the simple stock average for test differences in order to obtain the test adjusted stock averages (least-squares stock means). The adjusted stock averages were then regressed toward the overall mean ($\bar{\mu}$), in order that differences in the number of tests entered and the number of replicates per entry might be considered.

Computations on mortality data indicated no real differences among stocks, therefore, the regressed means for this trait are not included in the summary.

$$\text{Regressed Mean} = \hat{\mu} + \frac{r/C}{1 + (k-1)x + \frac{(1-Ck)r}{C}} (\hat{s})$$

where: $\hat{\mu}$ = the average of the test adjusted stock means.

r = repeatability.

x = the correlation among replicates.

k = the average number of replicates per test.

C = the diagonal inverse element for that stock. The reciprocal of C , i. e., $\frac{1}{C}$, is equal to nk if the assumption is made that the adjustments for test effects are made without error; where n is the number of tests entered.

\hat{s} = the test adjusted stock average minus the overall mean $\bar{\mu}$.

Table 1. The Adjustment Factors Used to Adjust for Test Differences

Test	No. Pens	Stocks Tested	Final Live- Weight		Breast Width		Body Depth		Keel Length	
			Hens	Toms	Hens	Toms	Hens	Toms	Hens	Toms
California	36	16	+ .38	+1.94	---	---	---	---	---	---
Kansas	12	11	- .59	-1.79	- .58	- .77	+ .07	+ .04	- .16	- .32
Minnesota (Rush Point)	16	16	+1.26	+2.51	+1.47	+1.22	- .40	- .47	+ .24	+ .26
Minnesota (Albert Lea)	16	16	+ .37	+1.34	+1.50	+1.14	- .40	- .56	- .03	.00
North Carolina	20	10	+ .71	+2.02	+ .15	+ .68	+ .05	+ .03	+ .27	+ .13
North Dakota	9	8	+ .98	+1.27	- .39	-1.55	+ .11	- .19	+ .01	- .13
Nebraska (B)	12	12	- .48	+ .21	- .31	- .37	+ .31	+ .43	.00	- .07
Nebraska (W)	6	6	+ .20	- .68	- .23	- .36	+ .38	+ .39	+ .03	+ .01
Pennsylvania	17	17	-1.57	-2.06	- .81	- .77	- .11	+ .02	- .38	- .07

Test	Eviscerated Weight		Eviscerated Yield		Percent Grade A		Feed * Conversion
	Hens	Toms	Hens	Toms	Hens	Toms	
California	+ .26	+1.71	- .38	+ .41	+31.45	+29.50	- .07
Kansas	- .57	-1.20	- .80	+ .91	- .44	+ 5.30	+ .37
Minnesota (Rush Point)	+1.52	+2.24	+3.59	+ .73	- 3.93	- 4.37	- .27
Minnesota (Albert Lea)	+ .58	+1.01	+1.73	- .41	+ .15	- 5.00	---
North Carolina	+ .67	+1.64	+ .51	- .15	+ 3.55	+ 2.53	+ .02
North Dakota	---	+1.23	---	+ .69	---	+ 6.31	---
Nebraska (B)	- .43	+ .35	- .31	+ .53	- 1.06	+ .34	---
Nebraska (W)	+ .14	- .25	- .31	+1.14	+ 2.24	+ 2.23	- .12
Pennsylvania	-1.75	-2.43	-2.99	-2.63	- 1.42	- 5.70	- .06

* Combined sexes

Table 2. Overall Means, Minimum and Maximum Regressed Means, Estimates of Repeatability and the Correlation Among Replicates

Trait	Overall Means		Regressed Means				Repeatability		Correlation Among Replicates	
			Minimum		Maximum					
	Hens	Toms	Hens	Toms	Hens	Toms	Hens	Toms	Hens	Toms
Final Live Weight	14.6	26.4	11.1	22.3	16.2	28.7	.826	.771	.826	.890
Breast Width	4.6	4.9	4.1	4.4	5.0	5.6	.619	.669	.896	.950
Body Depth	6.9	8.8	6.6	8.3	7.2	9.3	.765	.813	.765	.843
Keel Length	6.0	7.3	5.6	6.9	6.3	7.8	.800	.838	.800	.838
Eviscerated Weight	11.7	21.6	8.9	18.4	13.0	23.5	.820	.756	.860	.889
Eviscerated Yield	80.6	81.9	79.3	80.9	82.1	83.3	.606	.553	.606	.553
Percent Grade A	95.4	92.2	91.3	89.4	100.0	94.4	.126	.097	.126	.097
Feed Conversion*	3.48		3.39		3.57		.458		.458	

* Combined Sexes

Regressed Means and LSD Range by Stocks

Stock Code	Name and Address of Breeder	Variety	Strain or Trade Name	Sex	Final Live Weight		Feed Conversion**	
					Re-gressed Mean	LSD * Range	Re-gressed Mean	LSD* Range
101	Amerine Turkey Breeding Farms, Inc. Rt. 2, Box 783, Oakdale, California	BBB	Amerine	Toms	28.7	26.9 30.5	3.42	3.33 3.51
				Hens	16.2	15.3 17.1		
38	Anderson Turkey Farm Belchertown, Massachusetts	BBB	Anderson	Toms	28.4	26.6 30.2	3.43	3.34 3.52
				Hens	15.8	14.9 16.7		
80	Anderson Turkey Farm Belchertown, Massachusetts	BBW	Anderson Blockbuster	Toms	26.4	24.6 28.2	3.43	3.34 3.52
				Hens	14.9	14.0 15.8		
1	Browning Turkey Farms Winchester, Kentucky	BBB	Browning	Toms	27.3	25.5 29.1	3.56	3.47 3.65
				Hens	15.0	14.1 15.9		
125	California Royal Turkeys, Inc. Box 184, Roseville, California	BBB	California Royal (SC)	Toms	26.3	24.5 28.1	3.53	3.44 3.62
				Hens	13.8	12.9 14.7		
232	California Royal Turkeys, Inc. Box 184, Roseville, California	SA	California Royal	Toms	24.5	22.7 26.3	3.57	3.48 3.66
				Hens	13.6	12.7 14.5		
239	Ephrata Turkey Farms, Inc. Ephrata, Pennsylvania	BBW	Ephrata	Toms	26.0	24.2 27.8	3.50	3.41 3.59
				Hens	13.4	12.5 14.3		
122	Gozzi Breeding Farms, Inc. Guilford, Connecticut	BBW	Gozzi 200	Toms	24.8	23.0 26.6	3.48	3.39 3.57
				Hens	14.1	13.2 15.0		
123	Gozzi Breeding Farms, Inc. Guilford, Connecticut	BBW	Gozzi 300	Toms	25.1	23.3 26.9	3.51	3.42 3.60
				Hens	13.5	12.6 14.4		
6	Hart's Hatchery, Inc. Medford, Oregon	BBB	Hart-Schneider	Toms	25.9	24.1 27.7	3.45	3.36 3.54
				Hens	14.0	13.1 14.9		
26	Hilltop Turkey Farm & Hatchery Rt. 3, McPherson, Kansas	BBB	Schmidt	Toms	26.4	24.6 28.2	3.42	3.33 3.51
				Hens	14.3	13.4 15.2		

** Combined Sexes

* If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

Regressed Means and LSD Range by Stocks

Eviscerated Weight		Eviscerated Yield		Breast Width		Body Depth		Keel Length		Percent Grade A		Stock Code
Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	
23.5	22.0 25.0	82.1	81.3 82.9	---	---	---	---	---	---	92.9	90.3 95.5	101
13.0	12.2 13.8	80.5	79.7 81.3	---	---	---	---	---	---	92.5	89.4 95.6	
23.2	21.7 24.7	81.6	80.8 82.4	5.1	4.7 5.5	8.8	8.7 8.9	7.3	7.2 7.4	91.3	88.7 93.9	38
12.8	12.0 13.6	80.5	79.7 81.3	4.8	4.5 5.1	6.9	6.8 7.0	6.0	5.9 6.1	94.2	91.1 97.3	
21.6	20.1 23.1	81.7	80.9 82.5	5.2	4.8 5.6	8.6	8.5 8.7	7.0	6.9 7.1	91.8	89.2 94.4	80
11.9	11.1 12.7	80.2	79.4 81.0	4.7	4.4 5.0	6.8	6.7 6.9	5.7	5.6 5.8	95.3	92.2 98.4	
22.3	20.8 23.8	81.6	80.8 82.4	4.5	4.1 4.9	9.1	9.0 9.2	7.7	7.6 7.8	90.1	87.5 92.7	1
11.9	11.1 12.7	79.5	78.7 80.3	4.2	3.9 4.5	7.1	7.0 7.2	6.2	6.1 6.3	96.3	93.2 99.4	
21.6	20.1 23.1	81.9	81.1 82.7	---	---	---	---	---	---	91.5	88.9 94.1	125
11.1	10.3 11.9	80.1	79.3 80.9	---	---	---	---	---	---	93.6	90.5 96.7	
20.0	18.5 21.5	81.6	80.8 82.4	4.5	4.1 4.9	8.9	8.8 9.0	7.2	7.1 7.3	91.7	89.1 94.3	232
11.0	10.2 11.8	80.2	79.4 81.0	4.3	4.0 4.6	6.9	6.8 7.0	5.8	5.7 5.9	93.3	90.2 96.4	
20.9	19.4 22.4	81.0	80.2 81.8	4.9	4.5 5.3	8.7	8.6 8.8	7.1	7.0 7.2	92.4	89.8 95.0	239
10.7	9.9 11.5	80.4	79.6 81.2	4.4	4.1 4.7	6.7	6.6 6.8	5.7	5.6 5.8	95.5	92.4 98.6	
20.2	18.7 21.7	81.2	80.4 82.0	4.8	4.4 5.2	8.5	8.4 8.6	7.0	6.9 7.1	92.7	90.1 95.3	122
11.4	10.6 12.2	80.6	79.8 81.4	4.7	4.4 5.0	6.8	6.7 6.9	5.8	5.7 5.9	95.4	92.3 98.5	
20.4	18.9 21.9	81.3	80.5 82.1	4.7	4.3 5.1	8.7	8.6 8.8	7.2	7.1 7.3	92.2	89.6 94.8	123
10.9	10.1 11.7	80.6	79.8 81.4	4.5	4.2 4.8	6.8	6.7 6.9	5.8	5.7 5.9	95.7	92.6 98.8	
21.2	19.7 22.7	81.5	80.7 82.3	4.7	4.3 5.1	8.8	8.7 8.9	7.4	7.3 7.5	89.4	86.8 92.0	6
11.3	10.5 12.1	80.3	79.5 81.1	4.4	4.1 4.7	6.9	6.8 7.0	6.0	5.9 6.1	95.8	92.7 98.9	
21.9	20.4 23.4	82.7	81.9 83.5	4.8	4.4 5.2	8.6	8.5 8.7	7.1	7.0 7.2	93.4	90.8 96.0	26
11.7	10.9 12.5	81.2	80.4 82.0	4.5	4.2 4.8	6.8	6.7 6.9	5.9	5.8 6.0	95.9	92.8 99.0	

* If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

Regressed Means and LSD Range by Stocks (Continued)

Stock Code	Name and Address of Breeder	Variety	Strain or Trade Name	Sex	Final Live Weight		Feed Conversion**	
					Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range
228	Janes Bar Nothing Ranch, Inc. Austin, Texas	BBB	Janes Male Line	Toms	25.6	23.8 27.4	---	---
				Hens	14.9	14.0 15.8		
110	Janssen Farms Hatcheries 121 E. Wash., Zeeland, Michigan	BBB	Janssen "Dutch Boy"	Toms	27.5	25.7 29.3	3.39	3.30 3.48
				Hens	15.4	14.5 16.3		
111	Janssen Farms Hatcheries 121 E. Wash., Zeeland, Michigan	BBW	Janssen "Dutch Boy"	Toms	25.2	23.4 27.0	3.50	3.41 3.59
				Hens	13.8	12.9 14.7		
113	Johnson Farms Inc. Rose Hill, North Carolina	BBB	Johnson	Toms	25.2	23.4 27.0	3.46	3.37 3.55
				Hens	14.1	13.2 15.0		
92	Kimber Turkey Breeding Farms 5695 E. Shields Ave., Fresno, Calif.	BBB	Kimber KB-33	Toms	27.2	25.4 29.0	3.48	3.39 3.57
				Hens	15.1	14.2 16.0		
105	Kimber Turkey Breeding Farms 5695 E. Shields Ave., Fresno, Calif.	BBW	Kimber KW-66	Toms	25.5	23.7 27.3	3.58	3.49 3.67
				Hens	14.3	13.4 15.2		
65	Lester P. Marcum 10501 S. Highway 99, Selma, Calif.	BBB	Marcum	Toms	25.0	23.2 26.8	3.42	3.33 3.51
				Hens	13.7	12.8 14.6		
62	Meadowbrook Turkey Farms R. D. 2, Box 810, Roseville, California	BBB	Meadowbrook MBX-100(SC)	Toms	27.1	25.3 28.9	3.51	3.42 3.60
				Hens	14.8	13.9 15.7		
240	Meadowbrook Turkey Farm R. D. 2, Box 810, Roseville, California	BBW	Meadowbrook	Toms	27.3	25.5 29.1	3.55	3.46 3.64
				Hens	14.9	14.0 15.8		
10	Nicholas Turkey Breeding Farms, Inc. 865 W. Napa St., Sonoma, California	BBB	Nicholas (SC)	Toms	26.4	24.6 28.2	3.44	3.35 3.53
				Hens	15.1	14.2 16.0		
19	Nicholas Turkey Breeding Farms, Inc. 865 W. Napa St., Sonoma, California	BBW	Nicholas	Toms	26.1	24.3 27.9	3.56	3.47 3.65
				Hens	14.8	13.9 15.7		

** Combined Sexes

* If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

Regressed Means and LSD Range by Stocks (Continued)

Eviscerated Weight		Eviscerated Yield		Breast Width		Body Depth		Keel Length		Percent Grade A		Stock Code
Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	
21.1	19.6 22.6	82.3	81.5 83.1	5.1	4.7 5.5	8.5	8.4 8.6	7.1	7.0 7.2	92.3	89.7 94.9	228
12.1	11.3 12.9	80.9	80.1 81.7	4.8	4.5 5.1	6.8	6.7 6.9	5.8	5.7 5.9	95.2	92.1 98.3	
22.7	21.2 24.2	82.6	81.8 83.4	5.1	4.7 5.5	8.7	8.6 8.8	7.4	7.3 7.5	91.9	89.3 94.5	110
12.5	11.7 13.3	81.1	80.3 81.9	4.8	4.5 5.1	6.9	6.8 7.0	6.0	5.9 6.1	94.3	91.2 97.4	
20.4	18.9 21.9	81.2	80.4 82.0	4.8	4.4 5.2	8.6	8.5 8.7	6.9	6.8 7.0	92.5	89.9 95.1	111
11.1	10.3 11.9	80.4	79.6 81.2	4.4	4.1 4.7	6.7	6.6 6.8	5.6	5.5 5.7	96.8	93.7 99.9	
20.9	19.4 22.4	82.7	81.9 83.5	4.8	4.4 5.2	8.6	8.5 8.7	7.0	6.9 7.1	92.4	89.8 95.0	113
11.6	10.8 12.4	81.9	81.1 82.7	4.6	4.3 4.9	6.8	6.7 6.9	5.9	5.8 6.0	95.3	92.2 98.4	
22.3	20.8 23.8	81.9	81.1 82.7	4.8	4.4 5.2	8.8	8.7 8.9	7.4	7.3 7.5	91.5	88.9 94.1	92
12.2	11.4 13.0	80.4	79.6 81.2	4.6	4.3 4.9	6.9	6.8 7.0	6.1	6.0 6.2	94.9	91.8 98.0	
20.9	19.4 22.4	81.9	81.1 82.7	4.7	4.3 5.1	8.7	8.6 8.8	7.2	7.1 7.3	91.8	89.2 94.4	105
11.5	10.7 12.3	80.0	79.2 80.8	4.4	4.1 4.7	6.8	6.7 6.9	5.9	5.8 6.0	95.3	92.2 98.4	
20.6	19.1 22.1	82.3	81.5 83.1	5.4	5.0 5.8	8.4	8.3 8.5	7.2	7.1 7.3	92.4	89.8 95.0	65
11.1	10.3 11.9	81.2	80.4 82.0	4.7	4.4 5.0	6.8	6.7 6.9	5.7	5.6 5.8	95.5	92.4 98.6	
22.2	20.7 23.7	82.0	81.2 82.8	4.8	4.4 5.2	8.9	8.8 9.0	7.5	7.4 7.6	93.7	91.1 96.3	62
11.9	11.1 12.7	80.7	79.9 81.5	4.5	4.2 4.8	7.0	6.9 7.1	6.0	5.9 6.1	97.2	94.1 100.0	
22.4	20.9 23.9	82.0	81.2 82.8	---	---	---	---	---	---	92.7	90.1 95.3	240
12.0	11.2 12.8	80.8	80.0 81.6	---	---	---	---	---	---	98.9	95.8 100.0	
21.9	20.4 23.4	82.8	82.0 83.6	5.1	4.7 5.5	8.7	8.6 8.8	7.2	7.1 7.3	90.3	87.7 92.9	10
12.4	11.6 13.2	81.9	81.1 82.7	4.7	4.4 5.0	6.9	6.8 7.0	5.9	5.8 6.0	94.7	91.6 97.8	
21.2	19.7 22.7	81.2	80.4 82.0	4.5	4.1 4.9	9.0	8.9 9.1	7.3	7.2 7.4	92.7	90.1 95.3	19
11.9	11.1 12.7	80.0	79.2 80.8	4.4	4.1 4.7	7.0	6.9 7.1	5.9	5.8 6.0	97.6	94.5 100.0	

* If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

Regressed Means and LSD Range by Stocks (Continued)

Stock Code	Name and Address of Breeder	Variety	Strain or Trade Name	Sex	Final Live Weight		Feed Conversion**	
					Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range
220	Nicholas Turkey Breeding Farms, Inc. 865 W. Napa St., Sonoma, California	BBB	Nicholas Male Line	Toms	25.9	24.1 27.7	3.40	3.31 3.49
				Hens	15.3	14.4 16.2		
55	Nordman, C. L. & Sons 2835 S. Los Banos Hwy., Merced, Calif.	BBB	Nordman	Toms	26.0	24.2 27.8	3.49	3.40 3.58
				Hens	14.5	13.6 15.4		
233	North Carolina State College Poultry Dept., Raleigh, North Carolina	BBB	Exp. Control	Toms	25.8	24.0 27.6	3.51	3.42 3.60
				Hens	15.0	14.1 15.9		
237	Palmateer Turkey Farm & Hatchery R. D. 1, Elverson, Pennsylvania	BBB	Exp.	Toms	26.8	25.0 28.6	3.41	3.32 3.50
				Hens	14.9	14.0 15.8		
28	Rose-A-Linda Turkey Farms 7842 Elmont Ave., Elverta, California	BBB	Rose-A-Linda	Toms	26.8	25.0 28.6	3.42	3.33 3.51
				Hens	15.3	14.4 16.2		
238	Rose-A-Linda Turkey Farms 7842 Elmont Ave., Elverta, California	BBW	Rose-A-Linda	Toms	25.2	23.4 27.0	3.50	3.41 3.59
				Hens	13.8	12.9 14.7		
221	Schultz, Fred W. & Son Box 246, Croton Falls, New York	BBW	Schultz (SC)	Toms	26.6	24.8 28.4	3.48	3.39 3.57
				Hens	13.9	13.0 14.8		
22	Segars Turkey Breeding Ranch Box 1008, Turlock, California	BBW	Segars (SC)	Toms	26.7	24.9 28.5	3.53	3.44 3.62
				Hens	14.7	13.8 15.6		
66	Shearer, Robert K. R. D. 1, Reinholds, Pennsylvania	BBB	Shearer	Toms	26.4	24.6 28.2	3.42	3.33 3.51
				Hens	14.8	13.9 15.7		
16	Waite's Turkey Hatchery, Inc. Eldon, Missouri	BBB	Waite's King Size	Toms	27.0	25.2 28.8	3.53	3.44 3.62
				Hens	14.6	13.7 15.5		
235	Washore Turkey Association 920 S. E. Stark, Portland, Oregon	BBB	Washore 400 Pure Strain	Toms	28.2	26.4 30.0	---	---
				Hens	15.3	14.4 16.2		

** Combined Sexes

* If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

Regressed Means and LSD Range by Stocks (Continued)

Eviscerated Weight		Eviscerated Yield		Breast Width		Body Depth		Keel Length		Percent Grade A		Stock Code
Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	
21.5	20.0	83.1	82.3	5.6	5.2	8.5	8.4	7.0	6.9	89.5	86.9	220
	23.0		83.9		6.0		8.6		7.1		92.1	
12.6	11.8	82.1	81.3	5.0	4.7	6.8	6.7	5.7	5.6	91.3	88.2	
	13.4		82.9		5.3		6.9		5.8		94.4	55
21.5	20.0	82.3	81.5	4.8	4.4	8.6	8.5	7.3	7.2	92.2	89.6	
	23.0		83.1		5.2		8.7		7.4		94.8	
11.6	10.8	80.0	79.2	4.4	4.1	6.9	6.8	6.0	5.9	95.5	92.4	
	12.4		80.8		4.7		7.0		6.1		98.6	233
21.3	19.8	82.3	81.5	4.8	4.4	8.8	8.7	7.2	7.1	90.1	87.5	
	22.8		83.1		5.2		8.9		7.3		92.7	
11.9	11.1	79.7	78.9	4.5	4.2	7.0	6.9	6.3	6.2	95.6	92.5	
	12.7		80.5		4.8		7.1		6.4		98.7	237
22.2	20.7	82.6	81.8	5.4	5.0	8.5	8.4	7.3	7.2	92.2	89.6	
	23.7		83.4		5.8		8.6		7.4		94.8	
12.3	11.5	81.9	81.1	4.8	4.5	6.8	6.7	6.0	5.9	95.5	92.4	
	13.1		82.7		5.1		6.9		6.1		98.6	28
22.2	20.7	82.7	81.9	5.1	4.7	8.3	8.2	7.1	7.0	91.8	89.2	
	23.7		83.5		5.5		8.4		7.2		94.4	
12.5	11.7	81.2	80.4	4.8	4.5	6.6	6.5	5.9	5.8	95.0	91.9	
	13.3		82.0		5.1		6.7		6.0		98.1	238
20.4	18.9	81.3	80.5	4.9	4.5	8.6	8.5	7.0	6.9	92.4	89.8	
	21.9		82.1		5.3		8.7		7.1		95.0	
11.2	10.4	81.3	80.5	4.6	4.3	6.6	6.5	5.7	5.6	95.7	92.6	
	12.0		82.1		4.9		6.7		5.8		98.8	221
21.8	20.3	81.8	81.0	5.0	4.6	8.8	8.7	7.2	7.1	92.4	89.8	
	23.3		82.6		5.4		8.9		7.3		95.0	
11.2	10.4	80.7	79.9	4.4	4.1	6.9	6.8	5.9	5.8	95.5	92.4	
	12.0		81.5		4.7		7.0		6.0		98.6	22
21.9	20.4	81.9	81.1	4.6	4.2	8.9	8.8	7.4	7.3	94.4	91.8	
	23.4		82.7		5.0		9.0		7.5		97.0	
11.8	11.0	80.2	79.4	4.3	4.0	7.0	6.9	5.9	5.8	95.7	92.6	
	12.6		81.0		4.6		7.1		6.0		98.8	66
22.2	20.7	83.3	82.5	5.5	5.1	8.4	8.3	7.2	7.1	92.3	89.7	
	23.7		84.1		5.9		8.5		7.3		94.9	
12.1	11.3	81.5	80.7	4.9	4.6	6.9	6.8	5.9	5.8	95.4	92.3	
	12.9		82.3		5.2		7.0		6.0		98.5	16
22.0	20.5	81.6	80.8	4.4	4.0	9.1	9.0	7.8	7.7	91.6	89.0	
	23.5		82.4		4.8		9.2		7.9		94.2	
11.6	10.8	79.8	79.0	4.1	3.8	7.2	7.1	6.3	6.2	94.6	91.5	
	12.4		80.6		4.4		7.3		6.4		97.7	235
22.8	21.3	81.4	80.6	4.6	4.2	9.3	9.2	7.7	7.6	91.8	89.2	
	24.3		82.2		5.0		9.4		7.8		94.4	
12.2	11.4	80.0	79.2	4.3	4.0	7.1	7.0	6.2	6.1	95.1	92.0	
	13.0		80.8		4.6		7.2		6.3		98.2	

* If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

Regressed Means and LSD Range by Stocks (Continued)

Stock Code	Name and Address of Breeder	Variety	Strain or Trade Name	Sex	Final Live Weight		Feed Conversion**	
					Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range
236	Welkona Turkeys, Inc. Kalona, Iowa	BBB	Welkona-Wheeler	Toms	28.5	26.7 30.3	3.51	3.42 3.60
				Hens	15.3	14.4 16.2		
213	Welkona Turkeys, Inc. Kalona, Iowa	BBB	Wheeler	Toms	28.0	26.2 29.8	---	---
				Hens	15.3	14.4 16.2		
214	Welp's Turkey Breeding Farm Bancroft, Iowa	BBB	Welp B 1020	Toms	25.5	23.7 27.3	3.53	3.44 3.62
				Hens	14.6	13.7 15.5		
234	Welp's Turkey Breeding Farm Bancroft, Iowa	BBW	Iowwhite 1030	Toms	25.5	23.7 27.3	3.54	3.45 3.63
				Hens	14.1	13.2 15.0		
121	Harvey Wenzel Garden Prairie, Illinois	BBB	Wenzel	Toms	27.2	25.4 29.0	---	---
				Hens	15.0	14.1 15.9		
196	Wilford Hatchery & Breeding Farm Elyria, Ohio	BBW	Wilford	Toms	25.6	23.8 27.4	3.42	3.33 3.51
				Hens	14.2	13.3 15.1		
107	Williams Hatchery Box 2, Oakdale, California	BBB	Williams	Toms	28.4	26.6 30.2	3.46	3.37 3.55
				Hens	15.9	15.0 16.8		
218	Wrolstad, Clifford Rt. 3, Box 293, Molalla, Oregon	SW	Wrolstad	Toms	22.3	20.5 24.1	3.57	3.48 3.66
				Hens	11.1	10.2 12.0		

** Combined Sexes

* If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

Regressed Means and LSD Range by Stocks (Continued)

Eviscerated Weight		Eviscerated Yield		Breast Width		Body Depth		Keel Length		Percent Grade A		Stock Code
Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	Re-gress-ed Mean	LSD* Range	
23.3	21.8 24.8	81.5	80.7 82.3	4.5	4.1 4.9	9.2	9.1 9.3	7.8	7.7 7.9	92.4	89.8 95.0	236
12.3	11.5 13.1	80.2	79.4 81.0	4.3	4.0 4.6	7.2	7.1 7.3	6.3	6.2 6.4	95.1	92.0 98.2	
22.8	21.3 24.3	81.6	80.8 82.4	4.7	4.3 5.1	9.2	9.1 9.3	7.7	7.6 7.8	92.1	89.5 94.7	213
12.2	11.4 13.0	80.0	79.2 80.8	4.3	4.0 4.6	7.2	7.1 7.3	6.2	6.1 6.3	93.8	90.7 96.9	
20.9	19.4 22.4	81.8	81.0 82.6	4.7	4.3 5.1	8.7	8.6 8.8	7.3	7.2 7.4	91.8	89.2 94.4	214
11.6	10.8 12.4	79.4	78.6 80.2	4.4	4.1 4.7	6.9	6.8 7.0	6.2	6.1 6.3	95.0	91.9 98.1	
20.6	19.1 22.1	80.9	80.1 81.7	4.6	4.2 5.0	8.9	8.8 9.0	7.2	7.1 7.3	91.7	89.1 94.3	234
11.2	10.4 12.0	79.3	78.5 80.1	4.4	4.1 4.7	6.9	6.8 7.0	6.0	5.9 6.1	95.5	92.4 98.6	
22.2	20.7 23.7	81.7	80.9 82.5	4.8	4.4 5.2	8.9	8.8 9.0	7.5	7.4 7.6	91.9	89.3 94.5	121
12.1	11.3 12.9	80.7	79.9 81.5	4.4	4.1 4.7	7.0	6.9 7.1	6.0	5.9 6.1	95.2	92.1 98.3	
21.0	19.5 22.5	81.9	81.1 82.7	4.8	4.4 5.2	8.5	8.4 8.6	7.1	7.0 7.2	92.7	90.1 95.3	196
11.4	10.6 12.2	80.6	79.8 81.4	4.6	4.3 4.9	6.7	6.6 6.8	5.8	5.7 5.9	95.9	92.8 99.0	
23.3	21.8 24.8	81.8	81.0 82.6	4.9	4.5 5.3	8.9	8.8 9.0	7.5	7.4 7.6	91.9	89.3 94.5	107
12.8	12.0 13.6	80.6	79.8 81.4	4.7	4.4 5.0	7.0	6.9 7.1	6.1	6.0 6.2	95.2	92.1 98.3	
18.4	16.9 19.9	81.9	81.1 82.7	---	---	---	---	---	---	96.7	94.1 99.3	218
8.9	8.1 9.7	79.9	79.1 80.7	---	---	---	---	---	---	100.0	96.9 100.0	

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